

NACOmatic

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ID Min Alt#1 -	7	CVO -	391	MUO -	121
ID Min TO#1 -	15	CYS -	924	MWH -	650
MT Min Alt#1 -	159	DEW -	615	MYL -	116
MT Min TO#1 -	167	DGW -	936	NOW -	699
OR Min Alt#1 -	335	DIJ -	79	NUW -	663
OR Min TO#1 -	343	DLN -	229	OKH -	676
WA Min Alt#1 -	563	DLS -	558	OLF -	332
WA Min Rdr#1 -	571	EAN -	1003	OLM -	677
WA Min TO#1 -	574	EAT -	851	OMK -	684
WY Min Alt#1 -	870	ECS -	976	ONO -	470
WY Min Rdr#1 -	878	ELN -	618	ONP -	455
WY Min TO#1 -	881	EMM -	968	ORS -	617
1S3 -	231	EPH -	622	OTH -	461
32S -	329	EUG -	400	PAE -	626
3S8 -	414	EUL -	70	PDT -	473
3U3 -	191	EVW -	938	PDX -	491
42S -	316	FBR -	943	PIH -	135
6S5 -	252	FHR -	641	PLU -	703
6S8 -	284	GCC -	945	PNA -	977
79S -	233	GCD -	417	POY -	980
7S0 -	318	GDV -	238	PSC -	686
7V6 -	953	GEG -	787	PUW -	700
8S1 -	313	GEY -	950	PWD -	312
9S2 -	322	GGW -	234	PWT -	607
9S9 -	433	GNG -	82	RBG -	546
AFO -	905	GPI -	276	RDM -	535
ALW -	842	GRF -	633	RIW -	983
AOC -	39	GTF -	239	RKS -	988
AST -	368	HIO -	480	RLD -	710
AWO -	598	HLN -	259	RNT -	704
BDN -	384	HQM -	643	RWL -	981
BFI -	715	HRI -	415	RXE -	142
BHK -	192	HVR -	255	S01 -	226
BIL -	195	IDA -	93	S12 -	367
BKE -	381	JAC -	956	S21 -	556
BLI -	602	JER -	101	S33 -	435
BNO -	389	KLS -	648	S39 -	531
BOI -	46	LAR -	971	S43 -	786
BPI -	909	LGD -	429	S50 -	600
BTM -	215	LKV -	431	S59 -	289
BVS -	611	LMT -	419	S80 -	85
BYG -	911	LVM -	291	S87 -	158
BYI -	67	LWS -	104	SAA -	993
BZN -	208	LWT -	287	SBX -	323
CII -	221	M46 -	222	SDY -	325
CLM -	695	M75 -	295	SEA -	729
CLS -	614	MAN -	132	SFF -	804
COD -	932	MFR -	441	SHN -	783
COE -	73	MLS -	297	SHR -	995
CPR -	913	MMV -	437	SKA -	814
CTB -	227	MSO -	301	SLE -	548

SMN	-	144
SPB	-	554
SUN	-	88
SZT	-	147
TCM	-	821
TIW	-	835
TMK	-	561
TOR	-	999
TTD	-	526
TWF	-	149
U02	-	41
U68	-	935
U76	-	130
UAO	-	375
VUO	-	841
W43	-	955
WRL	-	1004
WYS	-	330
YKM	-	855

INSTRUMENT APPROACH PROCEDURE CHARTS



IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI VOR/DME or GPS-A
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI NDB or GPS Rwy 34
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL RNAV (GPS) Rwy 26¹²
VOR Rwy 8³

- ¹NA when local weather not available.
²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.
³Category C, 800-2¼; Category D, 900-3.

AURORA, OR

AURORA STATE LOC Rwy 17¹
RNAV (GPS) Rwy 17²³
RNAV (GPS) Rwy 35²

- ¹Category D, 800-2¼.
²NA when local weather not available.
³Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-2¼.

BAKER, MT

BAKER MUNI NDB Rwy 13¹
NDB Rwy 31²

- ¹Categories A,B, 1100-2; Categories C,D,
1100-3.
²Categories A,B, 1000-2; Category C, 1000-2¾;
Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI RNAV (GPS) Rwy 13¹²
VOR-A¹³
VOR/DME Rwy 13²⁴

- ¹NA when local weather not available.
²Category D, 900-2¾.
³Categories A,B, 1900-2; Categories C,D,
1900-3.
⁴NA when control zone not in effect.

NAME ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL ILS or LOC Rwy 16
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD VOR Rwy 31
Category D, 800-2¼.

BILLINGS, MT

BILLINGS LOGAN
INTL NDB Rwy 10L¹
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R³

- ¹Category D, 800-2¼.
²Categories A,B,C,D, 800-2¼.
³Categories A,B, 900-2; Categories C,D,
900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN
FIELD) LOC BC Rwy 28L
RNAV (GPS) Y Rwy 10R
RNAV (GPS) Y Rwy 28L
VOR/DME or TACAN Rwy 10L
VOR/DME or TACAN Rwy 28L
Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD VOR Rwy 12
Category C, 800-2¼; Category D, 800-2½.

BREMERTON, WA

BREMERTON NATIONAL ..RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 19¹
NA when local weather not available.

- ¹Categories A,B, 1200-2; Categories C,D,
1200-3.

BUFFALO, WY

JOHNSON COUNTY RNAV (GPS) Rwy 31¹
VOR/DME Rwy 31²
NA when local weather not available.
¹Category D, 800-2¼.

NAME ALTERNATE MINIMUMS

BURLEY, ID

BURLEY MUNI VOR-A
 VOR/DME-B
 NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL NDB Rwy 10'
 RNAV (GPS) Rwy 10
 RNAV (GPS) Rwy 28

NA when local weather not available.

¹Categories A,B, 1300-2; Categories C,D,
 1300-3.

BURNS, OR

BURNS MUNI VOR Rwy 30
 Categories A, B, 1400-2; Categories C,D,
 1400-3.

BUTTE, MT

BERT MOONEY ILS Y Rwy 15'
 LOC/DME Rwy 15'
 RNAV (GPS) Y Rwy 15'
 RNAV (GPS) Z Rwy 15,1200-2
 VOR or GPS-B,1400-3
 VOR/DME or GPS-A,3000-3

¹Categories A, B, C, 1200-4.

²Categories A,B, 1300-2; Categories C,D,
 1300-3.

³Categories A,B, 1500-2; Categories C,D,
 1500-3.

CALDWELL, ID

CALDWELL
 INDUSTRIAL RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 30
 NA when local weather not available.

CASPER, WY

CASPER/NATRONA
 COUNTY INTL ILS or LOC Rwy 3
 ILS, Categories A,B, 800-2; Category C 800-
 2½; Category D, 800-2¾; Category E, 900-3.
 LOC, Category C, 800-2½; Category D, 800-
 2¾; Category E, 900-3.

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON
 FIELD ILS or LOC Rwy 27'
 NDB Rwy 27'
 RNAV (GPS) Rwy 9²
 RNAV (GPS) Rwy 13²
 RNAV (GPS) Rwy 31²

¹NA when control tower closed.

²NA when local weather not available.

NAME ALTERNATE MINIMUMS

CODY, WY

YELLOWSTONE
 REGIONAL RNAV (GPS) Rwy 22'
 VOR or GPS-A²
¹Category C, 800-2¼; Category D, 200-2¼.
²Category D, 900-3.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY
 BOYINGTON FIELD ILS or LOC/DME Rwy 5
 NDB Rwy 5
 RNAV (GPS) Rwy 5
 VOR Rwy 5
 VOR/DME Rwy 1

NA when local weather not available.

CORVALLIS, OR

CORVALLIS MUNI VOR-A
 Categories A,B,1200-2; Categories C,D,
 1200-3.

DEER PARK, WA

DEER PARK RNAV (GPS) Rwy 34
 NA when local weather not available.

DILLON, MT

DILLON VOR or GPS-A,1500-3
 VOR/DME or GPS-B
 NA when Dillon altimeter setting not available.

DOUGLAS, WY

CONVERSE COUNTY VOR Rwy 29
 Categories A,B, 1100-2; Categories C,D,
 1100-3. DME standard.

EASTSOUND, WA

ORCAS ISLAND RNAV (GPS)-A
 Categories A, B, 1100-2.
 NA when local weather not available.

ELLENSBURG, WA

BOWERS FIELD RNAV (GPS) Rwy 25'
 RNAV (GPS) Rwy 29
 VOR-B²

NA when local weather not available.

¹Category D, 800-2¼.

²Category A, 1500-2.

EPHRATA, WA

EPHRATA MUNI RNAV (GPS) Rwy 3'
 RNAV (GPS) Rwy 21²
 VOR/DME Rwy 3'
 VOR Rwy 21'

NA when local weather not available.

¹Category D, 1300-3.

²Category C, 800-2¼; Category D, 1300-3.

NAME ALTERNATE MINIMUMS

EUGENE, OR

MAHLON-SWEET

FIELD ILS or LOC/DME Z Rwy 16R¹
 ILS or LOC Y Rwy 16R¹
 ILS or LOC/DME Rwy 16L¹²
 RNAV (GPS) Rwy 34R²
 VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Categories A,B, 900-2; Category C, 900-2½;
 Category D, 900-2¾.

EVANSTON, WY

EVANSTON-UINTA COUNTY

BURNS FIELD ILS or LOC/DME Rwy 23
 Categories C,D, 700-2.

EVERETT, WA

SNOHOMISH COUNTY(PAINE

FIELD) ILS or LOC/DME Rwy 16R
 NA when control tower closed.
 NA when local weather not available.

FORT BENTON, MT

FORT BENTON RNAV (GPS) Rwy 23
 NA when local weather not available.

GILLETTE, WY

GILLETTE-CAMPBELL

COUNTY ILS or LOC Rwy 34¹²
 RNAV (GPS) Rwy 16³
 RNAV (GPS) Rwy 34⁴
 VOR/DME Rwy 16⁵
 VOR/DME Rwy 34¹

¹Categories A,B, 900-2; Category C, 900-2½;
 Category D, 1000-3.

²NA when control tower closed.

³Categories A,B,C, 800-2¾; Category D,
 1000-3.

⁴Categories A,B,C,D, 1200-4.

⁵Category C, 800-2¾; Category D, 1000-3.

GLASGOW, MT

WOKAL FIELD/

GLASGOW INTL VOR Rwy 12
 Categories A,B, 900-2; Categories C,D, 900-3.
 VOR/DME standard.

GLENDEIVE, MT

DAWSON

COMMUNITY NDB or GPS Rwy 12,900-2¾

GOODING, ID

GOODING MUNI RNAV (GPS) Rwy 7
 RNAV (GPS) Rwy 25

NA when local weather not available.

NAME ALTERNATE MINIMUMS

GRAY AAF (KGRF)

FORT LEWIS, WA NDB Rwy 15
 NDB Rwy 33
 ILS or LOC Rwy 15
 COPTER NDB Rwy 15

NA when control tower closed.

GREAT FALLS, MT

GREAT FALLS INTL NDB Rwy 34
 Category D, 800-2¼.

GREYBULL, WY

SOUTH BIG HORN COUNTY RNAV (GPS)-A
 RNAV (GPS) Rwy 33¹

NA when local weather not available.

¹Category D, 1200-3.

HAILEY, ID

FRIEDMAN

MEMORIAL RNAV (GPS) W Rwy 31
 Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT

HAVRE CITY-COUNTY VOR Rwy 26
 Categories A, B, 900-2; Category C, 900-2¾;
 Category D, 900-3.

HELENA, MT

HELENA RGNL ILS or LOC Y Rwy 27¹²
 ILS or LOC Z Rwy 27¹²
 LOC/DME BC-C¹³
 NDB-D¹⁴
 RNAV (GPS) Y Rwy 9⁵
 RNAV (GPS) Rwy 23⁶
 RNAV (GPS) X Rwy 27⁵
 RNAV (RNP) Z Rwy 9⁷
 RNAV (RNP) Y Rwy 27⁷
 RNAV (RNP) Z Rwy 27⁷⁹
 VOR-A⁸
 VOR/DME-B⁶

¹NA when control tower closed.

²Categories A, B, 1600-2; Categories C, D, E,
 1600-3.

³Categories A, B, 1300-2; Categories C, D,
 1300-3.

⁴Category A, 1200-2.

⁵Categories A, B, 1600-2; Categories C, D,
 1600-3.

⁶Categories A, B, 900-2; Category C, 900-2¾;
 Category D, 900-3.

⁷NA when local weather not available.

⁸Categories A, B, 2900-2; Categories C, D,
 2900-3.

⁹1000-4.

NAME ALTERNATE MINIMUMS

HOQUIAM, WA

BOWERMAN RNAV (GPS) Rwy 24¹
 VOR/DME Rwy 24²
 VOR Rwy 6¹

¹Category D, 800-2½.

²Categories A,B, 900-2; Category C, 900-2¾;
 Category D, 900-3.

IDAHO FALLS, ID

IDAHO FALLS RGNL ILS or LOC Rwy 20¹
 LOC BC Rwy 2²
 RNAV (GPS) Rwy 20³
 VOR Rwy 20³

¹ILS, Category E, 700-2½. LOC, Category E,
 800-2½.

²Category E, 800-2½.

³NA when local weather not available.

JACKSON, WY

JACKSON HOLE RNAV (GPS) X Rwy 1¹
 RNAV (GPS) Y Rwy 19¹
 RNAV (RNP) Y Rwy 1, 10681200-4
 VOR/DME Rwy 1²
 VOR/DME Rwy 19³

¹Categories A,B, 1200-2; Categories C,D,
 1200-3.

²Categories A,B,1000-2; Categories C,D,
 1000-3.

³Categories A,B,1400-2; Categories C,D,
 1400-3.

JEROME, ID

JEROME COUNTY RNAV (GPS) Rwy 9
 RNAV (GPS) Rwy 27¹
 VOR/DME-A

NA when local weather not available.

¹Categories A, B, 1300-2; Categories C, D,
 1300-3.

JOHN DAY, OR

GRANT COUNTY RGNL/
 OGILVIE FIELD RNAV (GPS) Y Rwy 9
 Category B, 900-2; Category C, 900-2½.

KALISPELL, MT

GLACIER PARK INTL ILS or LOC Rwy 2¹
 RNAV (RNP) Y Rwy 2²
 RNAV (RNP) Rwy 20, 800-2½²

¹Categories C, D, 700-2.

²NA when local weather not available.

KELSO, WA

SOUTHWEST
 WASHINGTON RGNL RNAV (GPS) Rwy 12
 Categories A, B, 900-2.

NAME ALTERNATE MINIMUMS

KLAMATH FALLS, OR

KLAMATH FALLS ILS or LOC Rwy 32¹
 RNAV (GPS) Rwy 14²
 VOR/DME or TACAN Rwy 14³
 VOR/DME or TACAN Rwy 32⁴
 VOR or GPS-B,2100-3

¹Categories A,B, 900-2; Category C, 900-2¾;
 Category D, 1000-3. LOC, DME required.

²Categories A,B, 900-2; Category C, 900-2¾;
 Category D, 1000-3.

³Categories C,D, 1000-3; Category E, NA.

⁴Category B, 900-2; Categories C,D, 1000-3;
 Category E, 1500-3.

LAKEVIEW, OR

LAKE COUNTY VOR/DME-A
 Categories A,B, 900-2; Category C, 900-2½;
 Category D, 900-2¾.

LEWISTON, ID

LEWISTON-NEZ PERCE
 COUNTY ILS Rwy 26¹²
 RNAV (GPS) Y Rwy 8³
 RNAV (GPS) Y Rwy 12³
 RNAV (GPS) Y Rwy 26³
 RNAV (RNP) Rwy 30⁴
 RNAV (RNP) Z Rwy 8⁴
 RNAV (RNP) Z Rwy 12⁴
 RNAV (RNP) Z Rwy 26⁴
 VOR Rwy 8⁵
 VOR Rwy 26³

¹ILS, Category D, 800-2½.

²NA when control tower closed.

³Category D, 800-2½.

⁴NA when local weather not available.

⁵Categories A, B, 1100-2; Categories C, D,
 1100-3.

LEWISTOWN, MT

LEWISTOWN MUNI RNAV (GPS) Rwy 7
 VOR Rwy 7

Category D, 800-2½.

LIVINGSTON, MT

MISSION FIELD VOR/DME-B¹
 VOR-A²

¹Categories A, B, 900-2; Category C, 900-2½;
 Category D, 1000-3.

²Categories A, B, 2200-2; Categories C,D,
 2200-3.

NAME ALTERNATE MINIMUMS

MC CALL, ID

MC CALL MUNI RNAV (GPS) Rwy 16¹
RNAV (GPS) Y Rwy 34²
RNAV (GPS) Z Rwy 34^{3,4}

¹Category C, 900-2½.

²Categories A, B, 1600-2; Categories C, D, 1600-3.

³NA when local weather not available.

⁴Category C, 900-2½; Category D, 1000-3.

MC MINNVILLE, OR

MC MINNVILLE MUNI ILS or LOC Rwy 22
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22
VOR/DME-B

NA when local weather not available.

Category D 800-2¼.

MEDFORD, OR

ROGUE VALLEY INTL-
MEDFORD ILS or LOC/DME Rwy 14^{1,2}
LOC/DME BC-B^{2,3}
RNAV (GPS)-D³
RNAV (GPS) Rwy 14⁴
VOR-A⁵
VOR/DME-C³
VOR/DME Rwy 14⁵

¹ILS, Categories A, B, C, 700-2; Category D, 900-2½. LOC, Category D, 900-2½.

²NA when control tower closed.

³Categories A, B, 2300-2; Categories C, D, 2300-3.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

⁵Categories A, B, 1400-2; Category C, D, 1400-3.

MISSOULA, MT

MISSOULA INTL ILS Rwy 11¹
RNAV (GPS) Y Rwy 11^{2,3}
RNAV (RNP) Z Rwy 11², 800-2½
VOR/DME or GPS-A, 2000-3
VOR/DME or GPS-B, 2000-3

¹ILS, 1600-6. LOC, NA.

²NA when local weather not available.

³Categories A, B, 1900-2; Categories C, D, 1900-3.

NAME ALTERNATE MINIMUMS

MOSES LAKE, WA

GRANT COUNTY INTL ... ILS or LOC Rwy 32R¹
NDB Rwy 32R²
RNAV (GPS) Rwy 4¹
RNAV (GPS) Rwy 14L¹
RNAV (GPS) Rwy 22¹
VOR Rwy 4²
VOR -1 Rwy 14L²
VOR -3 Rwy 14L²
VOR Rwy 22²
VOR Rwy 32R²

¹NA when local weather not available.

²NA when control tower closed.

NEWCASTLE, WY

MONDELL FIELD VOR or GPS Rwy 31
NA except for operators with approved weather reporting service.
Categories A, B, 900-2; Categories C, D, 900-3.

NORTH BEND, OR

SOUTHWEST OREGON
RGNL ILS or LOC Rwy 4¹
NDB or GPS Rwy 4²
VOR or GPS-A³
VOR/DME or GPS-B⁴
VOR/DME Rwy 4⁴

¹ILS, Categories A, B, 800-2; Category C, 900-2¼, Category D, 1000-3. LOC, Category C, 900-2¼, Category D, 1000-3.

²Category C, 900-2¼; Category D, 1000-3.

³Categories A, B, 1100-2; Categories C, D, 1100-3.

⁴Categories C, D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG RNAV (GPS) Rwy 7
NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL ILS or LOC Rwy 17^{1,2,3}
RNAV (GPS) Rwy 17²
RNAV (GPS) Rwy 35²
VOR-A^{2,4}
VOR/DME Rwy 35²

¹ILS, Categories C, D, 700-2.

²NA when local weather not available.

³NA when control tower closed.

⁴Category D, 800-2¼.

ONTARIO, OR

ONTARIO MUNI RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
NA when local weather not available.

NAME ALTERNATE MINIMUMS

PASCO, WA

TRI-CITIES ILS or LOC Rwy 21R¹²
 RNAV (GPS) Rwy 3L
 RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 21R
 RNAV (GPS) Rwy 30
 VOR Rwy 21R³
 VOR/DME Rwy 30

NA when local weather not available.

¹NA when control tower closed.

²ILS, Categories A,B,C, 700-2; Category D,
 700-2½. LOC, Category D, 800-2½.

³Category D, 800-2½.

PENDLETON, OR

EASTERN OREGON RGNL AT

PENDLETON ILS or LOC/DME Rwy 25¹
 RNAV (GPS) Rwy 7
 RNAV (GPS) Rwy 11
 RNAV (GPS) Rwy 25
 RNAV (GPS) Rwy 29
 VOR Rwy 7

NA when local weather not available.

¹ILS, NA when control tower closed.

PINEDALE, WY

PINEDALE/RALPH WENZ

FIELD NDB-A¹
 RNAV (GPS) Rwy 11²
 RNAV (GPS) Rwy 29²

NA when local weather not available.

¹Category C, 800-2½; Category D, 800-2½.

²Category D, 800-2½.

POCATELLO, ID

POCATELLO RGNL ILS or LOC Rwy 21¹
 RNAV (GPS) Rwy 3²
 RNAV (GPS) Rwy 21²

¹NA when control zone not in effect.

²NA when local weather not available.

PORT ANGELES, WA

WILLIAM R

FAIRCHILD INTL ILS or LOC Rwy 8
 RNAV (GPS) Rwy 8¹
 RNAV (GPS) Rwy 26

NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D,
 1000-3.

NAME ALTERNATE MINIMUMS

PORTLAND, OR

PORTLAND INTL ILS or LOC Rwy 10L¹
 ILS or LOC Rwy 10R²
 ILS or LOC Rwy 28L³
 ILS or LOC Rwy 28R⁴
 LOC/DME Rwy 21⁵
 RNAV (GPS) Rwy 10L⁵
 RNAV (GPS) Rwy 10R⁵
 RNAV (GPS) Rwy 12⁷
 RNAV (GPS) Rwy 28L⁸
 RNAV (GPS) Rwy 28R⁸
 VOR/DME Rwy 21⁵
 VOR-A⁹
 VOR Rwy 28R⁵

¹ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.

²Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3; Category E, 1100-3.

³ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3; Category E, 1100-3. LOC, Category D, 1000-3; Category E, 1100-3.

⁴ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.

⁵Category D, 1000-3.

⁶Categories A,B,C 800-5; Category D, 1000-5.

⁷NA when local weather not available.

⁸Category D, 1000-3.

⁹Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

PORTLAND-HILLSBORO .. ILS or LOC Rwy 12¹
 RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 30

NA when local weather not available.

¹Categories A, B, 1500-2; Categories C, D, 1500-3.

PORTLAND-TROUTDALE NDB or GPS-A
 Categories A,B, 1100-2; Category C, 1100-3;
 Category D, 1300-3.

PULLMAN/MOSCOW, WA

PULLMAN/MOSCOW

MUNI RNAV (GPS) Rwy 5,800-2½

RAWLINS, WY

RAWLINS MUNI/

HARVEY FIELD RNAV (GPS) Rwy 22¹
 VOR/DME Rwy 22²

¹Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2½.

²Categories A, B, 1000-2; Category C, 1000-2½; Category D, 1000-3.

NAME ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD ILS or LOC Rwy 22¹
VOR/DME Rwy 22²

¹ILS, LOC, Category D, 800-2½; Category E,
800-2½.

²Category A, B, 1000-2; Category C, 1000-2¾;
Category D, E, 1000-3.

RENTON, WA

RENTON MUNI NDB Rwy 16¹
RNAV (GPS) Y Rwy 16²
RNAV (GPS) Z Rwy 16³

NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D,
1000-3.

²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

³Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON
COUNTY RNAV (GPS) Rwy 35
NA when local weather not available.
Category D, 800-2½.

RICHLAND, WA

RICHLAND NDB Rwy 19¹
RNAV (GPS) Rwy 19¹
RNAV (GPS) Rwy 26¹
VOR/DME-A²
VOR Rwy 26¹

¹Category D, 800-2½.

²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

RIVERTON, WY

RIVERTON RGNL ILS or LOC Rwy 28
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28
VOR Rwy 10
VOR Rwy 28

NA when local weather not available.

ROSEBURG, OR

ROSEBURG RGNL RNAV (GPS)-B
NA when local weather not available.
Categories A, B, 1200-2; Category C, 1200-3;
Category D, 1400-3.

SALEM, OR

MCNARY FIELD ILS or LOC Rwy 31¹²
LOC/DME Rwy 31³
RNAV (GPS) Rwy 31¹³

¹NA when local weather not available.

²ILS, Categories A, B, 800-2; Category C,
800-2¾; Category D, 800-2½. LOC, Category
C, 800-2¾; Category D, 800-2½.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL
AIRPARK VOR/DME or GPS-A
Category B, 900-2; Category C, 1000-2¾;
Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY
INTL ILS Rwy 13R¹
ILS Rwy 31L²
LOC/DME Rwy 13R³
RNAV (GPS) Y Rwy 13R⁴
RNAV (RNP) Z Rwy 13R⁵

¹ILS, Category A, 800-2; Category B, 900-2;
Category C, 900-2½; Category D, 1000-3.

²Category A, 800-2; Category B, 900-2;
Category C, 900-2½; Category D, 1000-3.

³Category B, 900-2; Category C, 900-2½;
Category D, 1000-3.

⁴Category B, 900-2; Category C, 900-2¾;
Category D, 1000-3.

⁵Categories A, B, C, D, 800-2½.

SHERIDAN, WY

SHERIDAN
COUNTY ILS or LOC/DME Rwy 32
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.
Category D, 800-2½.

SIDNEY, MT

SIDNEY-RICHLAND MUNI NDB Rwy 1¹
NDB Rwy 19²
RNAV (GPS) Rwy 1³
RNAV (GPS) Rwy 19³

NA when local weather not available.

¹Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2¾.

²Categories A, B, 1000-2; Category C, 1000-
2¾; Category D, 1000-3.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SPOKANE, WA

FELTS FIELD ILS/DME Rwy 21R¹
RNAV (GPS)-A²
RNAV (GPS) Rwy 3L²
VOR Rwy 3L^{3,4}

- ¹Categories A,B, 1000-2; Category C, 1000-2½.
²Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.
³Categories A, B, 1000-2; Categories C, D, 1000-3.
⁴NA when local weather not available.

SPOKANE INTL ILS or LOC Rwy 3¹
ILS or LOC/DME Rwy 21¹
RNAV (GPS) Rwy 3²
VOR Rwy 3³

- ¹ILS, Category D, 700-2.
²Category D, 800-2½.
³Category E, 800-2½.

TACOMA, WA

TACOMA NARROWS ILS Rwy 17¹
NDB Rwy 35¹
RNAV (GPS) Rwy 17^{1,2}
RNAV (GPS) Rwy 35^{2,3}

- ¹NA when control tower closed.
²Category D, 800-2½.
³NA when local weather not available.

THE DALLES, OR

COLUMBIA GEORGE RGNL/
THE DALLES MUNI RNAV (GPS)-A
Categories A,B, 1100-2; Category C, 1100-3;
Category D, 1200-3.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY
RGNL ILS or LOC Rwy 25¹
NDB Rwy 25
RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25
VOR Rwy 7²

- NA when local weather not available.
¹ILS, Category D, 700-2; Category E, 900-3.
LOC, Category E, 900-3.
²Category C, 800-2½; Category D, 800-2½.

NAME ALTERNATE MINIMUMS

WALLA WALLA, WA

WALLA WALLA RGNL ILS or LOC Rwy 20¹
NDB Rwy 20, 1000-3
RNAV (GPS) Rwy 2^{2,3}
RNAV (GPS) Rwy 16²
RNAV (GPS) Rwy 20²
VOR/DME Rwy 2²

- ¹ILS, LOC, Categories A,B, 1100-2; Categories C, D, 1100-3.
²Category D, 800-2½.
³NA when local weather not available.

WENATCHEE, WA

PANGBORN
MEMORIAL ILS Y Rwy 12, 1300-4
VOR/DME-C^{1,2}
VOR/DME-A³

- ¹NA when local weather not available.
²Categories A, B, 1500-2; Categories C, D, 1500-3.
³Categories A, B, 2000-2; Categories C, D, 2000-3.

WOLF POINT, MT

L.M. CLAYTON RNAV (GPS) Rwy 11
RNAV (GPS) Rwy 29
NA when local weather not available.

WORLAND, WY

WORLAND MUNI VOR or GPS Rwy 16
Categories C,D, 800-2½.

YAKIMA, WA

YAKIMA AIR TERMINAL/
MCALLISTER FIELD ILS Y Rwy 27^{1,2}
ILS Z Rwy 27^{1,3}
LOC/DME BC-B^{1,4}
RNAV (GPS) Y Rwy 27⁵
RNAV (GPS) Z Rwy 27⁴
VOR/DME or TACAN Rwy 27⁶
VOR-A⁷

- ¹NA when control tower closed.
²ILS, Categories A, B, 600-2½; Category C, 700-2½; Category D, 800-2½.
³Category C, 700-2; Category D, 800-2½
⁴Category D, 800-2½.
⁵Category C, 800-2½; Category D, 800-2½.
⁶Categories A, B, 1100-2; Categories C, D, 1100-3.
⁷Category C, 800-2½; Category D, 800-2½.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16**, Use LUNDI DEPARTURE. **Rwy 34**, use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16**, turn right.

Rwy 34, turn left. All aircraft climb direct CVO VOR/DME and continue climb in CVO VOR/DME holding pattern, (E, right turns, 261° inbound) to cross CVO VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, std. w/min. climb of 417' per NM to 9000, or 2800-3 for climb in visual conditions. **Rwy 17**, std. w/min. climb of 321' per NM to 10200, or 2800-3 for climb in visual conditions. **Rwy 22**, NA-obstacles. **Rwy 35**, std. w/min. climb of 369' per NM to 9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 35**, climbing right turn to 10200 via heading 130° and CPN VOR/DME R-340 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NAME TAKE-OFF MINIMUMS

BOWMAN FIELD(CON'T)

Rwy 17, climbing left turn to 10200 via heading 100° and CPN VOR/DME R-335 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NOTE: **Rwy 17**, multiple trees beginning 865' from departure end of runway, 243' left of centerline, up to 70' AGL/5097' MSL. Rod on hangar 570' from departure end of runway, 278' left of centerline, 54' AGL/5054' MSL. Multiple trees beginning 787' from departure end of runway, 165' right of centerline, up to 70' AGL/5098' MSL. Multiple transmission lines beginning 4602' from departure end of runway, 1664' right of centerline, 80' AGL/5159' MSL. **Rwy 35**, multiple transmission lines beginning 2242' from departure end of runway, 964' left of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA - Obstacles. DEPARTURE PROCEDURE: Use JATTS DEPARTURE.

ARLINGTON, WA**ARLINGTON MUNI**

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwy 16, climb direct to WATON LOM. **Rwys 29, 34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR**ASTORIA RGNL**

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8, 31**, turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA**AUBURN MUNI**

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR**AURORA STATE**

DEPARTURE PROCEDURE: **Rwy 17**, turn right,

thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL.

Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL.

Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway, 163' left of centerline, up to 138' AGL/329' MSL.

Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT**BAKER MUNI**

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY, OR**BAKER CITY MUNI**

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

Rwy 13, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17, NA. Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C, D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8, 13**, turn left.

Rwys 26, 31, 35, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA**BELLINGHAM INTL**

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34**, climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16**, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL.

Rwy 34, lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR**BEND MUNI (BDN)****AMDT 4 09183 (FAA)**

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY**MILEY MEMORIAL FIELD**

TAKE-OFF MINIMUMS: **Rwys 8, 26**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 8400 via BPI R-124. **Rwy 31**, climb to 10800 via BPI R-320 thence all aircraft climb on course.

BILLINGS, MT

BILLINGS LOGAN INTL (BIL)
AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R**, NA- Obstacles.
DEPARTURE PROCEDURE: **Rwy 10L**, Climb heading
098° to 4600 before turning right.

NOTE: **Rwy 10L**, fence 466' from departure end of
runway, 535' right of centerline, 11' AGL/3511' MSL,
cars on road, beginning from 624' from departure end of
runway, 427' right of centerline, 15' AGL/3523' MSL,
ground beginning 21' from departure end of runway, 499'
right of centerline, 0' AGL/3505' MSL. **Rwy 25**, airport
security fence, abeam departure end of runway, 500' left
of centerline, 11' AGL/3672' MSL to 1200' from
departure end of runway, abeam rwy centerline, 11' AGL/
3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or
higher assigned altitude) direct IDA VOR/DME, before
proceeding on course. **Rwy 19**, climb to 7000 (or higher
assigned altitude) direct PIH VORTAC, before
proceeding on course.

BOISE, ID

BOISE AIR TERMINAL / GOWEN FIELD (BOI)
AMDT 6 10042 (FAA)

DEPARTURE PROCEDURE: Use GOWEN
DEPARTURE.

BOZEMAN, MT

GALLATIN FIELD (BZN)
AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.
DEPARTURE PROCEDURE: **Rwys 12, 30**, use
BOZEMAN DEPARTURE.

BREMERTON, WA

BREMERTON NATIONAL (PWT)
AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. w/min.
climb of 410' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 1**, Climbing right
turn to 6000 direct CAN NDB, Thence... **Rwy 19**, Climb
to 6000 direct CAN NDB, thence...
...Continue climb-in-hold (S, LT, 013° inbound) to 6000
before proceeding on course.

NOTES: **Rwy 1**, Multiple bushes 380' from departure end
of runway, 522' left of centerline, up to 17' AGL/456'
MSL, multiple trees and poles beginning 1210' from
departure end of runway, 622' left of centerline, up to 100'
AGL/561' MSL, multiple trees and bushes 1012' from
departure end of runway, 708' right of centerline, up to
100' AGL/495' MSL. **Rwy 19**, Multiple trees beginning
176' from departure end of runway, 337' left of centerline,
up to 100' AGL/514' MSL, multiple trees beginning 371'
from departure end of runway, 277' right of centerline, up
to 100' AGL/548' MSL.

BUFFALO, WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:

Rwys 13, 31, 2400-2 or std. with a min. climb of 300' per
NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std.
with a min climb of 300' per NM to 6000.

DEPARTURE PROCEDURE: Northbound aircraft:

Rwy 13, turn left. **Rwy 31**, climb straight ahead.

All aircraft proceed via SHR R-139 to SHR VORTAC.
Southbound aircraft: **Rwy 13**, climb straight ahead.

Rwy 31, turn right. **All aircraft** proceed via CZI R-319 to
CZI VOR/DME.

BURLEY, ID

BURLEY MUNI (BYI)

AMDT 5 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 24**, 300-1½ or std. w/min.
climb of 428' per NM to 4500.

DEPARTURE PROCEDURE: **Rwy 2**, climbing left turn
direct BYI VOR/DME, continue climb in BYI VOR/DME
holding pattern (hold Northwest right turns, 125°
inbound) to cross BYI VOR/DME at or above MEA for
route of flight. **Rwy 6**, climbing left turn direct BYI VOR/
DME, continue climb in BYI VOR/DME holding pattern
(hold Northwest right turns, 125° inbound) to cross BYI
VOR/DME at or above MEA for route of flight. **Rwy 20**,
climbing right turn direct BYI VOR/DME, continue climb
in BYI VOR/DME holding pattern (hold Northwest right
turns, 125° inbound) to cross BYI VOR/DME at or above
MEA for route of flight. **Rwy 24**, climbing right turn
direct BYI VOR/DME, continue climb in BYI VOR/DME
holding pattern (hold Northwest right turns, 125°
inbound) to cross BYI VOR/DME at or above MEA for
route of flight.

NOTE: **Rwy 2**, obstruction light on bridge 252' from DER,
513' left of centerline, 57' AGL/4195' MSL. Trees
beginning 686' from DER, 201' right of centerline, up to
35' AGL/4184' MSL. Tree 694' from DER, 375' left of
centerline, 29' AGL/4178' MSL. Obstruction light on
building 736' from DER, 188' left of centerline, 11' AGL/
4161' MSL. Tower 803' from DER, 590' left of centerline,
55' AGL/4204' MSL. Vehicles on road beginning 857'
from DER, 1' right of centerline, up to 17' AGL/4168'
MSL. Poles beginning 1226' from DER, 549' left of
centerline, up to 72' AGL/4222' MSL. Building vent 1240'
from DER, 164' left of centerline, 27' AGL/4177' MSL.
Stack 2206' from DER, 856' right of centerline, 86' AGL/
4236' MSL. Stack 2573' from DER, 614' left of
centerline, 86' AGL/4236' MSL. Elevators beginning
3980' from DER, 131' right of centerline, up to 133' AGL/
4283' MSL. **Rwy 6**, trees beginning 46' from DER, 172'
right of centerline, up to 14' AGL/4163' MSL. Rising
terrain beginning 49' from DER, 326' right of centerline,
up to 4149' MSL. Bush 150' from DER, 103' right of
centerline, 5' AGL/4147' MSL. Antenna 586' from DER,
398' left of centerline, 15' AGL/4165' MSL. Obstruction
light on bridge 1061' from DER, 80' right of centerline,
39' AGL/4179' MSL.

BURLEY MUNI (BYI) (CON'T)

Rwy 20, obstruction light pole 42' from DER, 124' left of centerline, 16' AGL/4170' MSL. Railroad beginning 65' from DER, 4' left of centerline, up to 23' AGL/4177' MSL. Sign 181' from DER, 121' right of centerline, 18' AGL/4172' MSL. Vehicles on road 162' from DER, 2' left of centerline, 17' AGL/4169' MSL. Vehicles on road beginning 335' from DER 348' right of centerline up to 17' AGL/4171' MSL. Pole 446' from DER, 210' right of centerline, 26' AGL/4180' MSL. Antenna 523' from DER, 337' right of centerline, 63' AGL/4217' MSL. Tree 586' from DER, 213' right of centerline, 28' AGL/4182' MSL. Trees beginning 2014' from DER, 339' left of centerline, up to 96' AGL/4251' MSL.

Rwy 24, vehicles on road beginning 25' from DER, 9' left of centerline, up to 15' AGL/4169' MSL. Fence 58' from DER, 8' left of centerline, 4' AGL/4154' MSL. Rising terrain beginning 69' from DER, 201' right of centerline, up to 4154' MSL. Railroad 152' from DER, 6' left of centerline, 23' AGL/4176' MSL. Trees beginning 427' from DER, 101' right of centerline, up to 69' AGL/4223' MSL. Vehicles on road beginning 509' from DER, 586' right of centerline, up to 15' AGL/4169' MSL. Railroad beginning 568' from DER, 288' right of centerline, up to 23' AGL/4177' MSL. Pole 735' from DER, 185' left of centerline, 18' AGL/4172' MSL. Light standard 824' from DER, 58' right of centerline, 23' AGL/4177' MSL. Antenna 1630' from DER, 112' left of centerline, 58' AGL/4212' MSL. Tower 2766' from DER, 175' left of centerline, 123' AGL/4282' MSL. Tower 3570' from DER, 158' right of centerline, 157' AGL/4312' MSL. Obstruction light on elevators beginning 3115' from DER, 164' left of centerline, up to 184' AGL/4344' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)
ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or std. with a min. climb of 245' per NM to 2300. **Rwy 22**, 1300-2 or std. with a min. climb of 210' per NM to 1800. DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right heading 280°. **Rwy 28**, climb runway heading.

All aircraft climb to 2500 then turn right direct BVS NDB to cross BVS at or above 4500. Aircraft departing on BVS R-145 CWR-330 climb on course. All others continue climbing in BVS holding pattern (NW, right turns 113° inbound) to cross BVS at or above 6800 before proceeding on course.

NOTE: **Rwy 4**, tree 2581' from departure end of runway, 426' left of centerline, 100' AGL/212' MSL. Light pole 1489' from departure end of runway, 136' left of centerline 35' AGL/137' MSL. Bush 126' from departure end of runway, 430' right of centerline, 20' AGL/101' MSL. Building 2925' from departure end of runway, 130' left of centerline, 60' AGL/180' MSL.

BURNS, OR

BURNS MUNI

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30**, climbing left turn, thence...
...All aircraft departing on ILR R-072 CWR-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21**, pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT

BERT MOONEY

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15**, std. w/ min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29**, std. w/ min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 29**, climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 33**, climb direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence...

...climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15**, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL.

Rwy 29, multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6379' MSL. **Rwy 33**, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID

CALDWELL INDUSTRIAL

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30**, climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12**, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY

CASPER/NATRONA COUNTY INTL (CPR)
AMDT 3A 09155 (FAA)

DEPARTURE PROCEDURE: **Rwys 3,8,12**, turn left.

All other runways, turn right. **All aircraft** climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS, WA

CHEHALIS-CENTRALIA

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLM R-151 to OLM VORTAC before proceeding on course. **Rwy 34**, climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON FIELD

NOTE: **Rwy 13**, multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31**, multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

CODY, WY

YELLOWSTONE RGNL (COD)

AMDT 4 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, std. with a min. climb of 400' per NM to 8000' or 4200-3 for climb in visual conditions. **Rwy 22**, std. with a min. climb of 385' per NM to 7400' or 4200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to 5900, then climbing left turn via COD R-171 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight. **Rwy 22**, climb heading 218° to 6600, then climbing left turn via COD R-180 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 4**, trees beginning 100' from DER, 262' right of centerline, up to 79' AGL/5199' MSL. Rising terrain beginning 1723' from DER, 304' right of centerline, up to 5146' MSL. **Rwy 22**, poles beginning 1 NM from DER, 406' right of centerline, up to 60' AGL/5332' MSL. Rising terrain beginning 1 NM from DER, 109' right of centerline, up to 6235' MSL. Rising terrain beginning 5074' from DER, 131' left of centerline, up to 5428' MSL.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY BOYINGTON FIELD
(COE)

AMDT 9 10042 (FAA)

DEPARTURE PROCEDURE: use COEUR D'ALENE DEPARTURE.

COLSTRIP, MT

COLSTRIP (M46)

AMDT 2 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6** use CISPU (RNAV)

DEPARTURE: **Rwy 24**, use CONUK (RNAV)
DEPARTURE.

CONRAD, MT

CONRAD

DEPARTURE PROCEDURE: **Rwy 24**, climb runway heading to 4300, then continue climb on course.

CORVALLIS, OR

CORVALLIS MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in

visual conditions. **Rwy 27**, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 9, 17**, climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

Rwys 27, 35, climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL. Multiple trees and railroad

beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. **Rwy 27**,

obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.

COWLEY/LOVELL/BYRON, WY

NORTH BIG HORN COUNTY

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

DEER PARK, WA

DEER PARK (DEW)
AMDT 1 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, 300-1½ or std. with a min. climb of 455' per NM to 2500.

DEPARTURE PROCEDURE: **Rwy 4**, climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 16**, climb heading 164° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 22**, climbing left turn heading 155° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 34**, climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC.

NOTE: **Rwy 4**, aircraft 261' from DER, 511' left of centerline, up to 21' AGL/2210' MSL. Trees beginning 1809' from DER, 413' left of centerline, up to 109' AGL/2299' MSL. Aircraft 104' from DER, 186' right of centerline, up to 21' AGL/2200' MSL. Trees beginning 1667' from DER, 373' right of centerline, up to 116' AGL/2319' MSL. **Rwy 16**, trees beginning 31' from DER, 455' left of centerline, up to 109' AGL/2279' MSL. Trees beginning 2587' from DER, 621' right of centerline, up to 104' AGL/2264' MSL. **Rwy 22**, trees beginning 1461' from DER, 211' right of centerline, up to 90' AGL/2270' MSL. **Rwy 34**, aircraft 23' from DER, 218' left of centerline, up to 21' AGL/2230' MSL. Trees beginning 2678' from DER, 18' left of centerline, up to 165' AGL/2375' MSL. Vehicles beginning 74' from DER, 339' right of centerline, up to 15' AGL/2234' MSL. Trees beginning 2219' from DER, 260' right of centerline, up to 100' AGL/2382' MSL.

DILLON, MT

DILLON

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwestbound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

DOUGLAS, WY

CONVERSE COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23**, 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11**, climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23**, climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29**, climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CW R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CW R-199 9600; R-200 CW R-252 8000.

NOTE: **Rwy 5**, trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID

DRIGGS-REED MEMORIAL (DIJ)
AMDT 2 08157 (FAA)

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA

ORCAS ISLAND (ORS)

AMDT 1 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, NA-Terrain. **Rwy 34**, 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34**, climbing right turn to 2000 to intercept HUH VORTAC R-210 to HUH VORTAC, then climb-in-hold (hold South, Left turns, 352° inbound) to cross HUH VORTAC at or above 3800 before proceeding on course.

NOTE: **Rwy 34**, trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENBURG, WA

BOWERS FIELD

TAKE-OFF MINIMUMS: **Rwys 7, 11**, 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25**, 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29**, 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29**, climbing right turn direct ELN VORTAC. **Rwys 11, 25**, climbing left turn direct ELN VORTAC. **All aircraft**, continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA

EPHRATA MUNI (EPH)

AMDT 3 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 027° to 2300 before proceeding on course. **Rwy 11**, climb heading 112° to 2200 before proceeding on course. **Rwy 21**, climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn... **Rwys 34L, 34R**, climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD
 DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME.
Rwy 23, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.
All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD)
 TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.
 DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence...**Rwys 29, 34L/R**, climbing left turn, thence...
 ...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.
 NOTE: **Rwy 11**, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017
 DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA R-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.
 TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT

FORT BENTON
 TAKE-OFF MINIMUMS: **Rwys 5, 23**, std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.
 DEPARTURE PROCEDURE: **Rwys 5, 23**, for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY

FORT BRIDGER
 DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing; FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA

FRIDAY HARBOR
 TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.
 DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC)
 AMDT 4 09071 (FAA)
 TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21**, 600-3 or std. w/ min. climb of 425' per NM to 5200.
 DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21**, climb via heading 206° to 5200, before proceeding on course.
 NOTE: **Rwy 3**, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16**, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21**, fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30' AGL/4729' MSL. **Rwy 34**, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449' MSL. Vehicle on road 1610' from DER. 419' left of centerline, 15' AGL/4380' MSL.

GOODING, ID

GOODING MUNI (GNG)
 ORIG 08269 (FAA)
 DEPARTURE PROCEDURE: **Rwy 7**, climb heading 068° to 5000 before turning left. **Rwy 25**, climb heading 233° to 5600 before turning right.
 NOTE: **Rwy 7**, rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25**, vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 100'-Obstacles.

DEPARTURE PROCEDURE: **Rwy 25**, Use MELLR

DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

GRAY AAF (KGRF)

FORT LEWIS, WA AMDT 2, 10098

Rwy 15, Standard

Rwy 33, 300-1*

* Or standard with minimum climb of 430/NM to 600.

DEPARTURE PROCEDURE: **Rwy 15**, Climb heading 147° to 700 then climbing left turn direct GRF NDB.

Rwy 33, Climb direct GRF NDB. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GRF NDB climb on course. All others continue climb in GRF NDB holding pattern (hold NW, RT, 147° inbound) to cross GRF NDB at or above: 071° CW 134° bearing from GRF NDB, 8500; 261° CW 329° bearing from GRF NDB, 1500.

TAKE-OFF OBSTACLES: **Rwy 15**, Tree 100' AGL/439' MSL, 1848' from DER, 430' right of centerline. **Rwy 33**, Tree 100' AGL/479' MSL, 3465' from DER, 1338' left of centerline.

GREAT FALLS, MT

GREAT FALLS INTL

NOTE: **Rwy 7**, obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21**, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25**, windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1 or std. w/min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **All runways**, for departures on Gey bearings 320° CW 150°, climb in Gey NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures Gey bearings 150° CW 320° climb on course.

NOTE: **Rwy 25**, bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.

GUERNSEY, WY

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.

DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°. **All aircraft** continue on course.

HAILEY, ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3 w/min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 13**, Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.

NOTE: **Rwy 13**, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.

HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE, MT

HAVRE CITY-COUNTY (HVR)

AMDT 3 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, 300-1½ or std. w/min. climb of 217' per NM to 3300.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 3300 then climbing left turn to 8000 direct HVR VOR/DME thence...**Rwy 8**, climb heading 077° to 3300 then climbing left turn to 8000 via HVR R-025 to HVR VOR/DME thence...**Rwy 21**, climb heading 212° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...**Rwy 26**, climb heading 257° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...

...continue climb in hold in HVR VOR/DME holding pattern (hold west, right turns, 094° inbound) to cross HVR VOR/DME at or above 8000 before proceeding on course.

NOTE: **Rwy 3**, pole 2682' from DER, 1044' left of centerline, 21' AGL/2680' MSL. **Rwy 8**, obstruction light on windsock 59' from DER, 224' left of centerline, 9' AGL/2588' MSL. Tree 1192' from DER, 752' left of centerline, 25' AGL/2610' MSL. Tank 1.3 NM from DER, 2287' left of centerline, 57' AGL/2797' MSL. **Rwy 26**, light on windsock, 50' from DER, 225' right of centerline, 9' AGL/2589' MSL. Trees beginning 1617' from DER, 650' right of centerline, 25' AGL/2659' MSL.

HELENA, MT

HELENA RGNL (HLN)
ADMT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9**, std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 23**, 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16, 34, NA**.
DEPARTURE PROCEDURE: **Rwys 5, 9**, climbing left turn heading 270°. **Rwys 23, 27**, climbing right turn heading 020°. **All Aircraft**: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5**, ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23**, pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27**, building 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.
DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 110°. **Rwy 24**, climb runway heading.
All aircraft climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)
ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 450' per NM to 6300, or 500-2½ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 13**, climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31**, climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13**, road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31**, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL (IDA)
AMDT 4 09351 (FAA)

DEPARTURE PROCEDURE: **All aircraft** departing IDA R-160 CW R-040 climb on course. **All others** climb direct IDA VOR/DME. Continue climb in IDA holding pattern (South, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500 before proceeding on course.

NOTE: **Rwy 2**, pole 1039' from DER, 758' left of centerline, 42' AGL/4762' MSL. **Rwy 17**, trees, flagpole, building, light and vent on buildings, and vehicle on road beginning 29' from DER, 10' right of centerline, up to 84' AGL/4820' MSL. Trees and vent on building beginning 569' from DER, 22' left of centerline, up to 35' AGL/4760' MSL. Trees, antenna, and light poles beginning 1853' from DER, 26' right of centerline, up to 121' AGL/4851' MSL. **Rwy 35**, trees and railroad beginning 410' from DER, 503' right of centerline, up to 49' AGL/4769' MSL. Tree 1034' from DER, 715' left of centerline, 42' AGL/4762' MSL.

JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.

JEROME, ID

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 500-1½ or std. w/ min. climb of 435' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.

NOTE: **Rwy 9**, bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL. **Rwy 27**, fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.

JOHN DAY, OR

GRANT COUNTY RGNL/OGILVIE FIELD (GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, NA, Terrain.

DEPARTURE PROCEDURE: **Rwy 27**, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 27**, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.

KALISPELL, MT

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL (KLS)

AMDT 3 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, NA, terrain. **Rwy 30**, std. with a min. climb of 370' per NM to 1900 or 1900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 30**, climb heading 303° to 1900 then climbing right turn to 3900 direct LSO NDB. Continue climb in LSO NDB holding pattern (North, right turns, 175° inbound) to cross LSO NDB at or above 3900, then via BTG R-310 to BTG VORTAC. For climb in visual conditions: cross Southwest Washington Rgnl at or above 1800, then via BTG R-309 to BTG VORTAC.

NOTE: **Rwy 30**, light pole 22' from DER, 301' right of centerline, 30' AGL/49' MSL. Windssock 235' from DER, 348' left of centerline, 30' AGL/49' MSL. Rotating beacon 502' from DER, 425' left of centerline, 50' AGL/70' MSL. Multiple trees beginning 213' from DER, 530' right to 747' left of centerline, up to 136' AGL/155' MSL. Pole 964' from DER, 44' right of centerline, 30' AGL/50' MSL.

KEMMERER, WY

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA -Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/DME before proceeding on course. **Rwy 34**, climb via heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/DME before proceeding on course.

KLAMATH FALLS, OR

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400. **Rwy 32**, 2000-3 or std. with a min. climb of 320' per NM to 6300.

DEPARTURE PROCEDURE: **Rwys 14, 25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.

LA GRANDE, OR

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800. **Rwy 30**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34**, 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16**, 2000-3 or std. with a min. climb of 500' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 12, 16**, climbing left turn direct LGD NDB, thence; **Rwys 30, 34**, climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.

LAKEVIEW, OR

LAKE COUNTY

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKV R-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKV R-148 then via LKV R-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY

LARAMIE RGNL

DEPARTURE PROCEDURE: **Rwy 3**, turn left. **Rwys 12, 21**, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.

LAUREL, MT

LAUREL MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32**, NA.

DEPARTURE PROCEDURE: **Rwy 22**, turn left. **All aircraft** climb direct BIL VORTAC.

LEWISTON, ID

LEWISTON-NEZ PERCE COUNTY

DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, turn left direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN, MT

LEWISTOWN MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7, 12**, 900-2 or std. with a min. climb of 220' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 2, 30** turn left. **Rwys 7, 12, 20**, turn right. **Rwy 25**, climb runway heading. **All aircraft** climb direct LWT VORTAC. Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR

LEXINGTON

TAKE-OFF MINIMUMS: **Rwy 26**, std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8**, std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 8, 26**, for climb in visual conditions: cross Lexington Airport at or above 3600.

NOTES: **Rwy 8**, trees 1.42 NM from departure end of runway, 2386' left of centerline, 100' AGL/2159' MSL. Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT

LIBBY

TAKE-OFF MINIMUMS: **Rwy 33**, not authorized. **Rwy 15**, use EYESE RNAV DEPARTURE.

LIVINGSTON, MT

MISSION FIELD (LVM)

AMDT 3 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA-Environmental.

DEPARTURE PROCEDURE: **Rwys 4, 22**, use LIVINGSTON DEPARTURE.

MADRAS, OR

MADRAS MUNI (S33)

AMDT 1 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwys 16, 22**, std. with a min. climb of 298' per NM to 3900 or 1300-3 for climb in visual conditions

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing left turn heading 210° to intercept DSD R-348 to DSD VORTAC, thence... **Rwy 16**, climbing right turn heading 210° to intercept DSD R-348 to DSD VORTAC, thence..., or for climb in visual conditions: cross Madras Muni airport at or above 3600 MSL, then proceed on DSD R-356 to DSD VORTAC, thence... **Rwy 22**, climb heading 216° to intercept DSD R-348 to DSD VORTAC, thence..., or for climb in visual conditions: cross Madras Muni airport at or above 3600 MSL, then proceed on DSD R-356 to DSD VORTAC, thence...
...continue climb-in-hold (hold North, right turns, 168° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 4**, vehicle on road beginning 7' from DER, 268' left of centerline, up to 15' AGL/2444' MSL. Airplane on tarmac 60' from DER, 252' right of centerline, 40' AGL/2469' MSL. Bush 383' from DER, 483' right of centerline, 19' AGL/2439' MSL. Vehicle on road 742' from DER, 112' right of centerline, up to 15' AGL/2447' MSL. **Rwy 16**, bushes beginning 196' from DER, 151' left of centerline, up to 14' AGL/2444' MSL. Airplane on tarmac 1357' from DER, 280' right of centerline 40' AGL/2479' MSL. **Rwy 34**, bushes beginning 92' from DER, 116' right of centerline, up to 17' AGL/2437' MSL. Airplane on tarmac 1396' from DER, 375' left of centerline, 40' AGL/2469' MSL.

MC CALL, ID

MC CALL MUNI (MYL)

AMDT 2 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL DEPARTURE.

MC CHORD FIELD (KTCM)

TACOMA, WA 10154

DEPARTURE PROCEDURE: **Rwy 16**, Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34**, Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.

TAKEOFF OBSTACLES: **Rwy 16**, Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34**, Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

MC MINNVILLE, OR

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1¼ or std. w/min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17**, std. w/min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22**, std. w/min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35**, climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17**, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22**, multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35**, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277' MSL.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Obstacles.

Rwy 14, std. w/min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32**, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29**, use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R**, antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL.

Rwy 18, pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windsock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L**, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12,30, 6700-3*

* Or standard with minimum climb of 270/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28**, 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct STI NDB. **Rwy 28**, climbing right turn direct STI NDB. **All aircraft** departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

Rwy 29, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11**, 70' AGL tree, 1225' from departure end of runway, 90' right of centerline.

NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5,17,23,35**, NA. **Rwy 13**, 200-1 or std. with a min. climb of 275' per NM to 4400.

Rwy 31, 300-1 or std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn.

All aircraft climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13**, fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31**, multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, NA. **Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2**, NA. **Rwy 16**, turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTH BEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 5 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, std. with a min. climb of 475' per NM to 1200 or 900-3 with a min. climb of 300' per NM to 900 or 1600-2½ for climb in visual conditions. **Rwy 13**, 400-2½ with a min. climb of 250' per NM to 2500 or 1600-2½ for climb in visual conditions. **Rwy 31**, 300-1½ or std. with a min. climb of 280' per NM to 300.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 043° to intercept OTH VORTAC R-337 northwest bound to 1800 before proceeding on course, or for climb in visual conditions cross Southwest Oregon Rgnl airport at or above 1500 before proceeding on course. **Rwy 13**, climb heading 132° to 1300 before proceeding on course, or for climb in visual conditions cross Southwest Oregon Rgnl airport at or above 1500 before proceeding on course. **Rwy 31**, climb heading 312° to 800 before proceeding on course.

NOTE: **Rwy 4**, Obstruction light on antenna 383' from DER, 207' right of centerline, 22' AGL/35' MSL. Ship 1000' from DER, on centerline, up to 140' MSL. Obstruction lights on bridge beginning 1886' from DER, 621' left of centerline, up to 93' AGL/93' MSL. Bridge beginning 4728' from DER, 580' right of centerline, 265' AGL/265' MSL. Obstruction lights on bridge beginning 4741' from DER, 948' right of centerline, up to 268' AGL/268' MSL. Transmission tower 5031' from DER, 677' right of centerline, 213' AGL/216' MSL. Trees beginning 1.2 NM from DER, 409' left of centerline, up to 150' AGL/549' MSL. Trees beginning 1.5 NM from DER, 1396' right of centerline, up to 150' AGL/629' MSL. Buildings beginning 1.7 NM from DER, 776' left of centerline, up to 73' AGL/393' MSL. **Rwy 13**, bushes beginning 38' from DER, 175' left of centerline, up to 16' AGL/33' MSL. Vehicle on road, 193' from DER, 237' left of centerline, up to 15' AGL/30' MSL. Bush 193' from DER, 145' right of centerline, up to 20' AGL/37' MSL. Trees beginning 346' from DER, 17' right of centerline, up to 150' AGL/349' MSL. Buildings beginning 504' from DER, 243' right of centerline, up to 86' AGL/106' MSL. Trees beginning 628' from DER, 6' left of centerline, up to 150' AGL/298' MSL. Antenna on building 712' from DER, 554' right of centerline, up to 51' AGL/68' MSL. Poles beginning 880' from DER, 13' right of centerline, up to 136' AGL/236' MSL. Spire 3467' from DER, 1122' left of centerline, 55' AGL/243' MSL. Pole 1.0 NM from DER, 159' left of centerline, up to 121' AGL/221' MSL. **Rwy 22**, ship 4050' from DER, on centerline, up to 140' MSL. **Rwy 31**, ship 1000' from DER, on centerline, up to 140' MSL. Trees beginning 5037' from DER, 15' left of centerline, up to 92' AGL/232' MSL. Trees beginning 5985' from DER, 1419' right of centerline, up to 108' AGL/188' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 300-1
DEPARTURE PROCEDURE: **Rwy 7**, climb via heading
071° to 2000, then climbing right turn direct CVV
VOR/DME. Continue climb on course. **Rwy 25**, climb
via heading 251° to 2100, then climbing left turn direct
CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7**, multiple trees beginning 1167' from DER,
212' left of centerline, up to 80' AGL/319' MSL. Multiple
trees beginning 664' from DER, 208' right of centerline,
up to 80' AGL/299' MSL. Fence 612' from DER, right
and left of centerline, 10' AGL/229' MSL. Multiple
bushes beginning 240' from DER, 64' left of centerline,
up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from
DER, left and right of centerline, up to 15' AGL/174'
MSL. Multiple trees beginning 2271' from DER, right
and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a
min. climb of 706' per NM to 600, or 2200-3 for climb in
visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading
085° to 1000 then climbing left turn direct OLM
VORTAC, thence... **Rwy 17**, climb heading 172° to 1200
then climbing right turn direct OLM VORTAC, thence...
...or climb in visual conditions to cross OLM VORTAC at
or above 2300, thence... **Rwys 26, 35**, climbing right
turn direct OLM VORTAC, thence...

...continue climb in OLM VORTAC holding pattern
(south, right turn, 356° inbound) to cross OLM
VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, multiple trees beginning 880' from DER,
214' left of centerline, up to 100' AGL/343' MSL.

Multiple trees beginning 1636' from DER, 131' right of
centerline, up to 100' AGL/320' MSL. **Rwy 17**, multiple
trees beginning 1008' from DER, 24' left of centerline,
up to 100' AGL/490' MSL. Multiple trees beginning 752'
from DER, 3' right of centerline, up to 100' AGL/370'
MSL. **Rwy 26**, multiple trees and WSK on building
beginning 475' from DER, 595' left of centerline, up to
100' AGL/330' MSL. Multiple trees beginning 338' from
DER, 339' right of centerline, up to 100' AGL/309' MSL.
Rwy 35, multiple trees beginning 2176' from DER, 198'
left of centerline, up to 100' AGL/313' MSL. Multiple
trees and field light on hangar beginning 657' from
DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a
min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG
RNAV DEPARTURE. **Rwy 35**, NA.

ONTARIO, OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on
a heading between 010° CW to 141° from departure end
of runway or minimum climb of 280' per NM to 9600 for
all other courses.

NOTE: **Rwy 14**, multiple trees, poles, and buildings
beginning 90' from departure end of runway, 157' right
of centerline up to 120' AGL/2314' MSL. Multiple trees,
poles, and buildings beginning 502' from departure end
of runway, 506' left of centerline up to 120' AGL/2314'
MSL. **Rwy 32**, multiple trees, poles, and buildings
beginning 340' from departure end of runway, 405' left of
centerline up to 100' AGL/2458' MSL. Multiple trees,
poles, and buildings beginning 2' from departure end of
runway, 472' right of centerline up to 100' AGL/2431'
MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb
runway heading to 1000, thence... **Rwy 12**, turn left. **All**
others turn right. **All aircraft** climb direct PSC VOR/
DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON
(PDT)

AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34**, climbing
left turn direct PDT VORTAC, thence...

Rwys 11, 16, climbing right turn direct PDT VORTAC,
thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern
(West, left turn, 073° inbound) to cross PDT VORTAC
at or above MEA before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 232' from DER,
348' right of centerline, up to 100' AGL/1579' MSL.

Rwy 25, multiple antennas and terrain beginning 203'
from DER, 259' left of centerline, up to 13' AGL/1512'
MSL. **Rwy 29**, terrain 189' from DER, 247' left of
centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb
of 310' per NM to 8300, or 4900-3 for climb in visual
conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right
turn to 10000 via heading 190° and BPI R-040 to BPI
VOR/DME before proceeding on course. **Rwy 29**,
climbing left turn to 10000 via heading 230° and BPI
R-020 to BPI VOR/DME before proceeding on course
or for climb in visual conditions: cross Pinedale/Ralph
Wenz Field at or above 11800 before proceeding on
course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12**, multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/2251' MSL. **Rwy 30**, multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 7 09351 (FAA)

DEPARTURE PROCEDURE: use KNURL ONE DEPARTURE.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179 MSL. Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB. Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8,13,26,31**, use WATTR FIVE DEPARTURE.

PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 500-3 or std. w/min. climb of 400' per NM to 600. **Rwy 10L/R**, std. w/min. climb of 270' per NM to 2900. **Rwy 21**, std. w/min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence ... **Rwys 10L,10R**, climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence ... **Rwy 21**, climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence ... **Rwys 28L,28R**, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence ... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3**, signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L**, rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R**, pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21**, trees beginning 1319' from departure end of runway, 155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L**, trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND, OR (CON'T)

PORTLAND-HILLSBORO (HIO)
AMDT 6 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwy 2**, std. w/ min. climb of 215' per NM to 1900 or 1200-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 235' per NM to 2700 or 1200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct UBG VOR/DME... **Rwy 20**, climbing left turn direct UBG VOR/DME... **Rwys 2, 30**, climbing left turn direct UBG VOR/DME, or for climb in visual conditions cross Portland-Hillsboro airport at or above 1600 then proceed direct UBG VOR/DME...

...all aircraft climb in UBG VOR/DME holding pattern (West, right turns, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2**, vehicle on road 247' from DER, 1' right of centerline, up to 15' AGL/220' MSL. Terrain left and right of centerline beginning at DER up to 302' MSL.

Rwy 12, terrain left and right of centerline beginning at DER up to 296' MSL. Trees 1836' from DER, 8' left of centerline, up to 125' AGL/331' MSL. **Rwy 20**, terrain left and right of centerline beginning at DER up to 306' MSL. Trees and hangers beginning 60' from DER, 32' left of centerline, up to 93' AGL/311' MSL. Trees, antennas and buildings beginning 564' from DER, 411' right of centerline, up to 74' AGL/280' MSL. **Rwy 30**, terrain left and right of centerline beginning at DER up to 292' MSL. Trees beginning 1664' from DER, 626' right of centerline, up to 194' AGL/363' MSL.

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7**, 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left.

Rwy 25, turn right. **All aircraft** climb via BTG R-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

POWELL, WY**POWELL MUNI**

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

Rwy 31, turn left. **All aircraft** climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)
AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/ min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15**, std. w/ min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28**, std. w/ min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15**, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 28**, climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

Rwy 33, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10**, trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15**, trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28**, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33**, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319' MSL.

PULLMAN-MOSCOW, WA**PULLMAN-MOSCOW RGNL**

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1½ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)

AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.DEPARTURE PROCEDURE: **Rwy 16**, climbing rightturn. **Rwy 34**, climb runway heading. **All aircraft** climb via SEA R-158 to COTNY INT/SEA 18.1 DME.

Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16**, light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34**, multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

RAWLINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min.climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std.with a min climb of 365' per NM to 8700. **Rwys 10, 28**, NA.DEPARTURE PROCEDURE: **Rwy 4**, turn right.

Rwy 22, turn left. Climb to 10000 via RWL R-200 and CKW R-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)

AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std. w/ min. climb of 269' per NM to 4700. **Rwy 28**, std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10**, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22**, climb heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28**, climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28**, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)

AMDT 7 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 405' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2½ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16**, climb heading

157° to 700, then climbing right turn direct SEA VORTAC, thence..., or for climb in visual conditions: cross Renton Muni Airport westbound at or above 1000 MSL, then proceed on SEA R-029 to SEA VORTAC, thence... **Rwy 34**, Climb heading 337° to 700, then climbing left turn direct SEA VORTAC thence ...

...Climb in SEA VORTAC holding pattern (East, left turns, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16**, trees, towers, lights and blast shield beginning 185' from DER, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from DER, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34**, Trees and terrain beginning 1.6 NM from DER, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from DER, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right

turn. **Rwy 35**, climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17**, 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND (RLD)

AMDT 8 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwys 1, 8**, std. w/ min. climb of 310' per NM to 5000. **Rwy 19**, std. w/ min. climb of 480' per NM to 5000. **Rwy 26**, std. w/ min. climb of 350' per NM to 5000.

DEPARTURE PROCEDURE: **Rwys 1, 8**, climbing left turn heading 220° and PSC R-269 to 6000 to PAPPS INT/PSC 32.72 DME before proceeding on course. **Rwy 19**, climbing right turn heading 310° and PSC R-269 to 6000 to PAPPS INT/PSC 32.72 DME before proceeding on course. **Rwy 26**, climb heading 310° and PSC R-269 to 6000 to PAPPS INT/PSC 32.72 DME before proceeding on course.

NOTE: **Rwy 1**, crane 4957' from DER, 1271' right of centerline, up to 120' AGL/520' MSL. Poles beginning 752' from DER, 446' right of centerline, up to 20' AGL/416' MSL. Trees beginning 43' from DER, 102' left of centerline, up to 25' AGL/424' MSL. Multiple trees 184' from DER, 162' right of centerline, up to 25' AGL/424' MSL. **Rwy 8**, railroad beginning 181' from DER, left to right of centerline, up to 23' AGL/412' MSL. Sign 23' from DER, 122' right of centerline, up to 4' AGL/391' MSL. Trees beginning 1142' from DER, 12' right of centerline, up to 25' AGL/454' MSL. Trees beginning 2240' from DER, 94' left of centerline, up to 25' AGL/456' MSL. **Rwy 19**, bushes beginning 22' from DER, 297' left of centerline, up to 7' AGL/401' MSL. Trees beginning 323' from DER, 478' right of centerline, up to 25' AGL/424' MSL. Trees beginning 665' from DER, 399' left of centerline, up to 25' AGL/472' MSL. **Rwy 26**, antenna 310' from DER, 444' right of centerline, up to 7' AGL/408' MSL. Fence 458' from DER, 360' left of centerline, up to 25' AGL/425' MSL. Fence 456' from DER, 408' right of centerline, up to 25' AGL/410' MSL. Post 398' from DER, 255' right of centerline, up to 9' AGL/409' MSL. Bush 755' from DER, 257' right of centerline, up to 17' AGL/417' MSL. Ground 480' from DER, 488' right of centerline, up to 421' MSL. Trees beginning 174' from DER, 231' right of centerline, up to 25' AGL/425' MSL. Trees beginning 184' from DER, 210' left of centerline, up to 25' AGL/457' MSL.

RIVERTON, WY

RIVERTON RGNL (RIW)

AMDT 1 10042 (FAA)

DEPARTURE PROCEDURE: **Rwys 1, 10, 19, 28**, climbing right turn direct RIW VOR/DME. **All Aircraft** climb in RIW holding pattern (hold East, right turns, 287° inbound) to MEA for direction of flight.

NOTES: **Rwy 1**, sage brush beginning 35' from DER, left and right of centerline, up to 3' AGL/5499' MSL. **Rwy 10**, sage brush beginning 20' from DER, left and right of centerline, up to 3' AGL/5466' MSL. **Rwy 19**, sage brush beginning 49' from DER, 171' right of centerline, up to 3' AGL/5479' MSL. Windstocks beginning 154' from DER, 268' right of centerline, up to 28' AGL/5468' MSL. **Rwy 28**, sage brush, tower, and pole beginning 54' from DER, 154' right of centerline, up to 59' AGL/5679' MSL. Sage brush, fence, and poles beginning 132' from DER, 27' left of centerline, up to 67' AGL/5647' MSL.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY (RKS)

AMDT 6 10098 (FAA)

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 8000 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 9**, climb heading 090° to 8200 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 21**, climb heading 212° to 8400, then climbing right turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 27**, climb heading 270° to 7900, then climbing right turn via OCS R-291 to OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 3**, vehicle on road beginning 22' from DER, 120' left of centerline, up to 20' AGL/6760' MSL, bushes beginning 178' from DER, 517' right of centerline, up to 15' AGL/6755' MSL. **Rwy 21**, bush 53' from DER, 221' left of centerline, 15' AGL/6737' MSL.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34**, std. w/ min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34**, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16**, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34**, building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

AMDT 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from departure end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURNLOM/Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURNLOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwy 35**, 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17**, NA. **Rwy 35**, climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1**, 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19**, 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn to COE VOR/DME via heading 200° and COE R-002.

Rwy 19, climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5**, turn left heading 280°. **Rwy 23**, turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33**, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15**, 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEY, MT

SCOBEY

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.



SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L**, 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R**, std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L**, std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 31R**, std. w/ a min. climb of 334' per NM to 900, or 400-1½ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEAR-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L**, multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL.

Rwy 13R, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L**, multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy 31R**, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R**, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence... climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L**, trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C**, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R**, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L**, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5**, 200-1¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5**, fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL. **Rwy 11**, truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions. **Rwy 23**, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000. **Rwy 23**, climbing left turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5**, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23**, multiple trees beginning 52' from departure end of runway, 149' left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.

SHERIDAN, WY**SHERIDAN COUNTY**

TAKE-OFF MINIMUMS: **Rwy 5**, 700-3 or std. w/ min. climb of 318' per NM to 5100, or... **Rwy 14**, 800-3 or std. w/ min. climb of 263' per NM to 5100, or... **Rwy 23**, 900-3 or std. w/ min. climb of 348' per NM to 5100, or...
... 1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 14**, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 23**, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 32**, climb via heading 320° and SHR R-106 to SHR VORTAC, thence...
... climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5**, multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23**, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32**, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT**SIDNEY-RICHLAND MUNI**

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA**HARVEY FIELD (S43)****ORIG 09127 (FAA)**

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles.

Rwy 15L, std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R**, std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L**, climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence... **Rwy 33R**, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 15L**, tree 81' from DER, 177' right of centerline, 40' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R**, powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA

FELTS FIELD (SFF)

AMDT 5 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3L**, std. w/ min. climb of 450' per NM to 3600, or 2300-3 for climb in visual conditions. **Rwy 3R**, std. w/ min. climb of 410' per NM to 3700, or 2300-3 for climb in visual conditions. **Rwy 21L**, std. w/ min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions. **Rwy 21R**, std. w/ min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R**, climb heading 035° to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above MCA/MEA for route of flight. **Rwys 21L, 21R**, climb heading 215° to 3200, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA/MEA for route of flight.

NOTE: **Rwy 3L**, trees beginning 1853' from DER, 772' right of centerline, up to 100' AGL/2037' MSL. Trees beginning 3538' from DER, 529' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.5 NM from DER, 16' left of centerline, up to 100' AGL/2579' MSL. Trees beginning 2.3 NM from DER, 723' right of centerline, up to 100' AGL/2499' MSL. **Rwy 3R**, hangar, NDB, and trees beginning 92' from DER, 269' right of centerline, up to 100' AGL/2040' MSL. Trees beginning 4685' from DER, 1033' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.6 NM from DER, 525' left of centerline, up to 100' AGL/2559' MSL. Trees and transmission poles beginning 2.6 NM from DER, 214' right of centerline, up to 150' AGL/2570' MSL. **Rwy 21L**, elevator, pole on building and trees beginning 315' from DER, 302' left of centerline, up to 140' AGL/2080' MSL. **Rwy 21R**, poles and trees beginning 188' from DER, 13' right of centerline, up to 100' AGL/1982' MSL. Elevator, pole, hangar, and building beginning 203' from DER, 1' left of centerline, up to 140' AGL/2080' MSL. Terrain and trees beginning 3.1 NM from DER, 4904' left of centerline, up to 100' AGL/2559' MSL.

SPOKANE INTL (GEG)

AMDT 5 10154 (FAA)

DEPARTURE PROCEDURE: **Rwys 3, 25**, climbing left turn direct GEG VORTAC, thence... **Rwys 7, 21**, climbing right turn direct GEG VORTAC, thence... continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeast bound V120-448, 5200; eastbound V2, 5200; southeast through westbound climb on course.

NOTE: **Rwy 3**, multiple trees beginning 1089' from DER, 666' left of centerline, up to 100' AGL/2370' MSL. Tree 1524' from DER, 851' right of centerline, 100' AGL/2374' MSL. **Rwy 21**, pole 2655' from DER, 1122' left of centerline, 42' AGL/2446' MSL. Tree 3391' from DER, 1315' right of centerline, 100' AGL/2466' MSL.

STEVENSVILLE, MT

STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSOR-163. **Rwy 30**, do not exceed 210 knots until established on MSOR-160.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 335 and MSOR-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30**, climbing right turn via heading 025° and MSO R-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR

SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36**, 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36**, climb direct to DSD VORTAC. Then all aircraft climb on course.

TACOMA, WA

TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17**, turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35**, turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A, B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C, D 2600-3 or std. with a min. climb of 475' per NM to 3100. **Rwy 7**, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2, 7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. All aircraft intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR

TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500.

DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

TORRINGTON, WY

TORRINGTON MUNI (TOR)

ORIG 10042 (FAA)

NOTE: **Rwy 2**, terrain 30' from DER, 277' left of centerline, 4197' MSL. **Rwy 10**, multiple trees and fence beginning 71' from DER, 143' right of centerline, up to 14' AGL/4214' MSL. Terrain 14' from DER, 502' left of centerline, 4199' MSL. **Rwy 28**, terrain 133' from DER, 386' right of centerline, 4213' MSL.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL

TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWF R-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWF VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)

AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions.

Rwy 26, 600-3 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence. . . or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence. . .

Rwy 26, climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence. . . or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence. . .

...continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL. **Rwy 26**, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2, 7, 20, 25, 34**, turn left. **Rwy 16**, turn right. **All aircraft** climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)

ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 3900 before proceeding on course. **Rwy 30**, climb heading 301° to 4000 before proceeding on course

...for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12**, tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30**, tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900.

Rwys 25, 30, CAT A,B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C,D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25, 30**, climbing left turn. **All aircraft** climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CWR-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CWR-2007400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH: **Rwy 1**, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right. **All aircraft** climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8**, climbing left turn to 9000 via heading 030° to intercept IIP VOR/ DME R-140 to JEZZY Int, thence... **Rwy 26**, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to JEZZY INT, thence...

...continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8**, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL.

Rwy 26, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/ lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD)

(NUW)

OKA HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7**:

Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25**: Climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS**: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE:

Rwy 7: Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25**: Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS**: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy 7**: Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA.

Rwy 16, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CW R-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

YAKIMA AIR TERMINAL/MCALLISTER FIELD

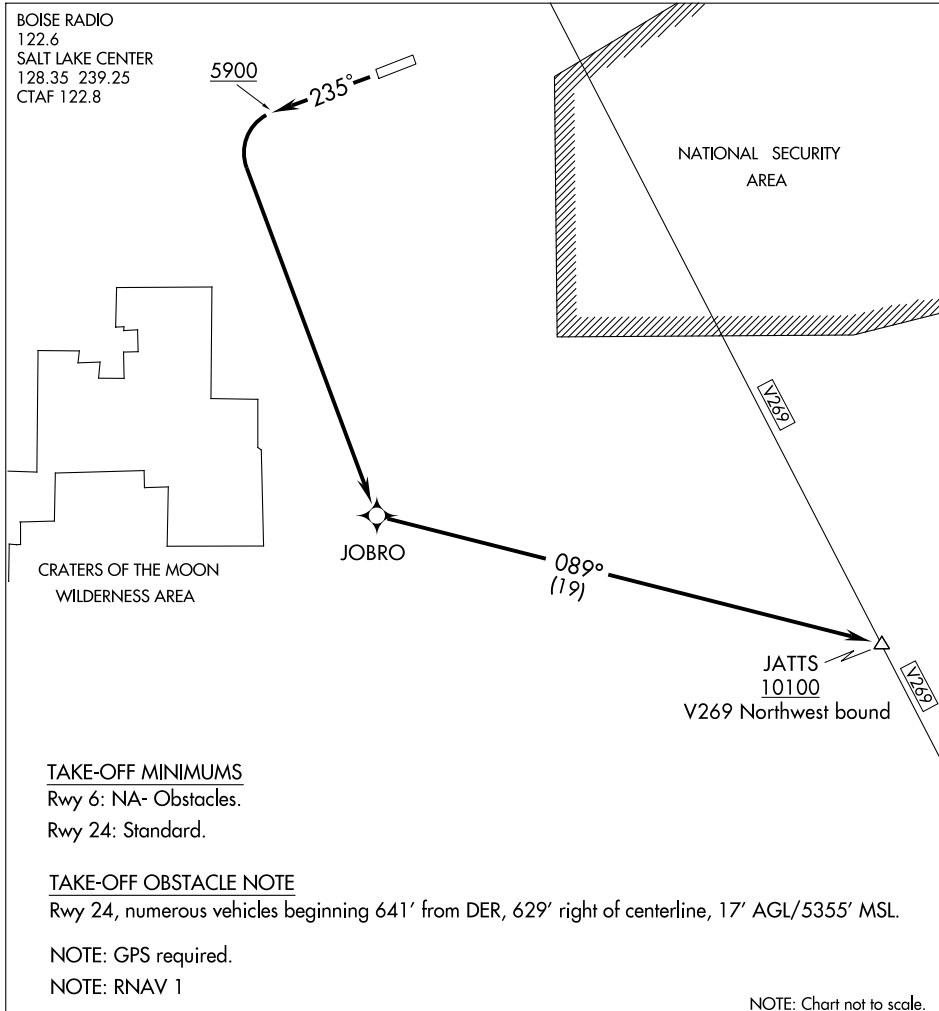
TAKE-OFF MINIMUMS: **Rwy 4**, NA. **Rwy 9**, 800-4 or std. with a min. climb of 300' per NM to 5000. **Rwys 22, 27**, 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4**, NA. **Rwys 9, 22, 27**, Use ZILLA DEPARTURE PROCEDURE.

(JATTS1.JATTS) 09239
JATTS ONE DEPARTURE (RNAV) (OBSTACLE)

SL-9198 (FAA)

ARCO-BUTTE COUNTY (AOC)
ARCO, IDAHO



NW-1, 03 JUN 2010 to 01 JUL 2010

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 24: Climb heading 235° to 5900 then climbing left turn direct JOBRO, then via 089° track to JATTS before proceeding on course.

APP CRS
323°

Rwy Idg
TDZE
Apt Elev

N/A
N/A
5332

RNAV (GPS)-A

ARCO-BUTTE COUNTY (AOC)



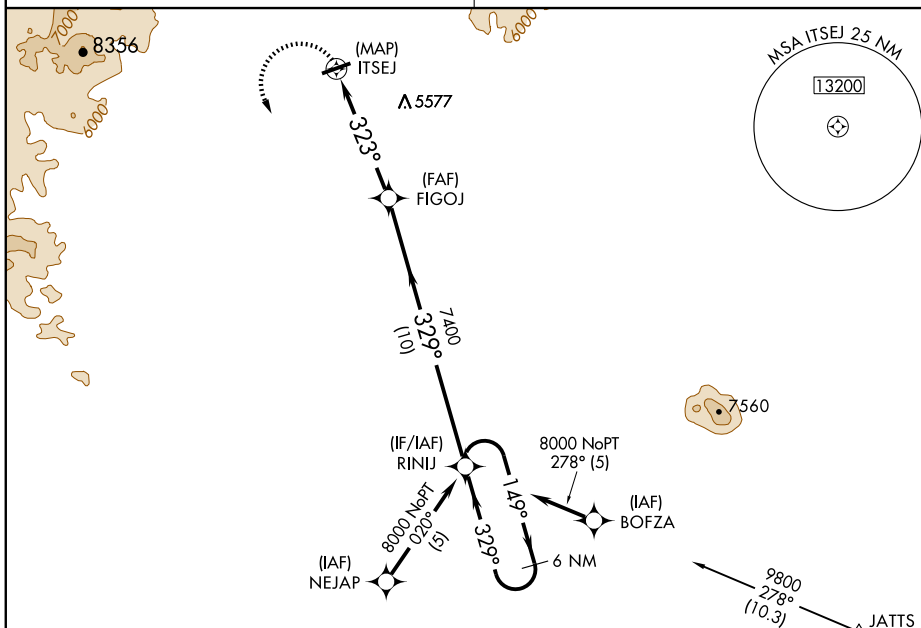
GPS or RNP- 0.3 required.

DME/DME RNP- 0.3 NA.

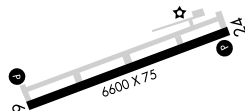
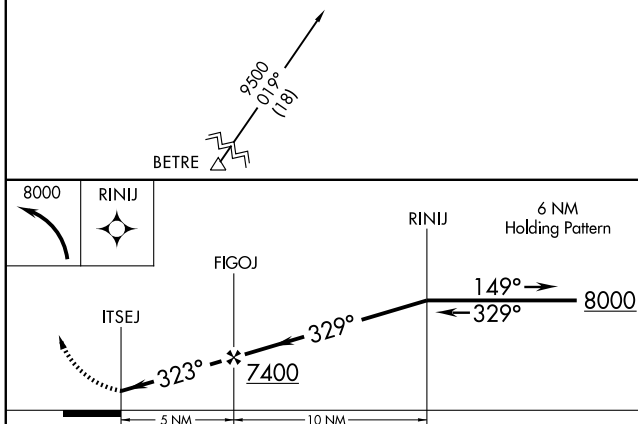
If local altimeter setting not received, use Pocatello Rgnl altimeter setting and increase all MDAs 600 feet.

MISSED APPROACH: Climbing left turn to 8000 direct RINJ and hold.

SALT LAKE CENTER
128.35 239.25

UN|COM
122.8 (CTAF) **L**

ELEV 5332

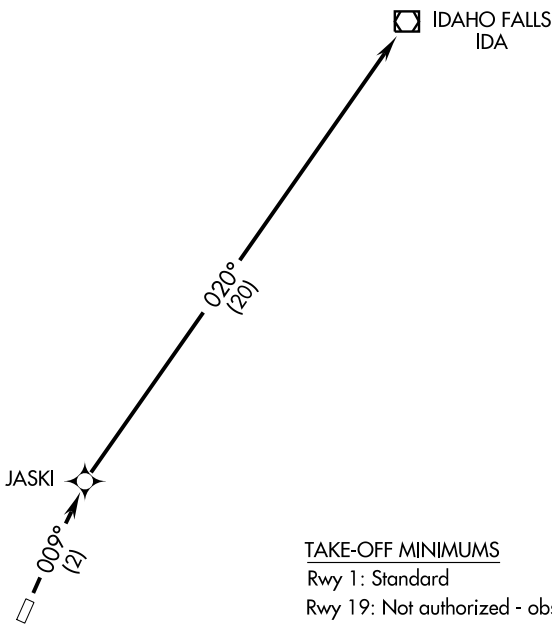


323° to
ITSEJ

CATEGORY	A	B	C	D
CIRCLING	5920-1	588 (600-1)	5920-1½ 588 (600-1½)	5920-2 588 (600-2)

MIRL Rwy 6-24 **L**
REIL Rwy 6 and 24 **L**

SALT LAKE CITY CENTER
128.35 239.25
UNICOM 122.8 (CTAF)



TAKE-OFF MINIMUMS
Rwy 1: Standard
Rwy 19: Not authorized - obstacles.

NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1: Climb to 7000 (or higher assigned altitude) via 009° course to JASKI WP and right turn via 020° course to IDA VOR/DME, then via (assigned route).

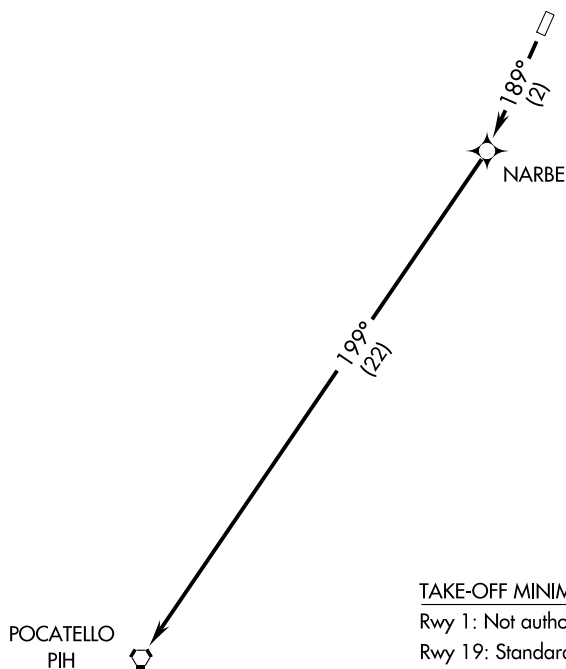
TAKE-OFF RUNWAY 19: Not authorized.

POCATELLO ONE DEPARTURE (RNAV)

SALT LAKE CITY CENTER

128.35 239.25

UNICOM 122.8 (CTAF)

TAKE-OFF MINIMUMS

Rwy 1: Not authorized - obstacles

Rwy 19: Standard

NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1: Not authorized.TAKE-OFF RUNWAY 19: Climb to 7000 (or higher assigned altitude) via 189° course to NARBE WP and right turn via 199° course to PIH VORTAC, then via (assigned route).

▼

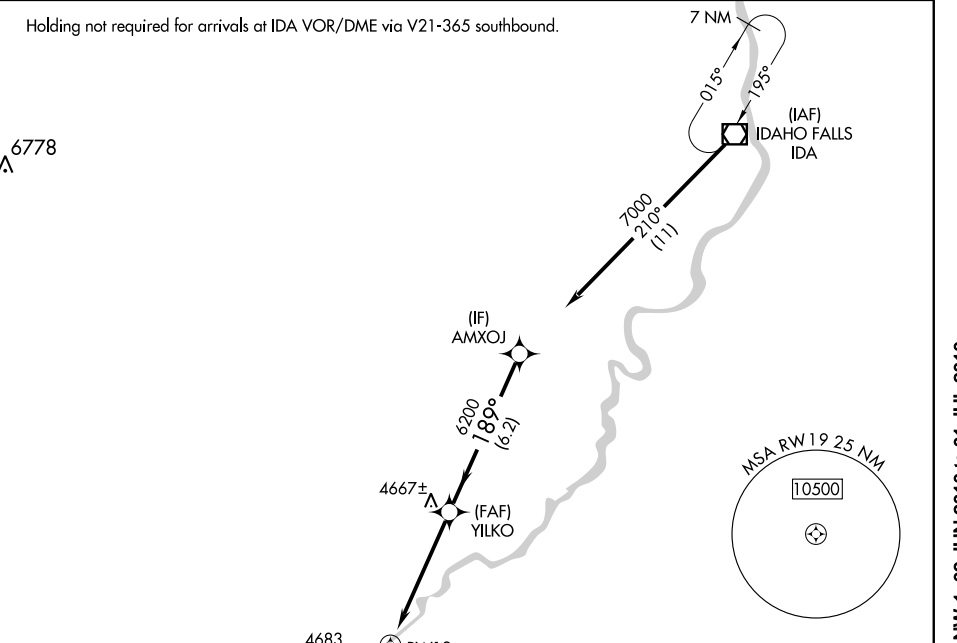
▲ NA

Use Pocatello Rgnl altimeter setting, when not received use Idaho Falls Rgnl altimeter setting.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 8500 direct NARBE and via 199° track to PIH VORTAC and hold.

SALT LAKE CITY CENTER
128.35 239.25

UNICOM
122.8 (CTAF)



MISSED APCH FIX

8500

NARBE

199° track

PIH

AMXOJ

7000

Procedure Turn NA

RW19

YILKO

6200

189°

6.2 NM

5.2 NM

3.05° TCH 37

CATEGORY	A	B	C	D
CIRCLING	5340-1 852 (900-1)	5340-1¼ 852 (900-1¼)	5340-2½ 852 (900-2½)	5380-3 892 (900-3)

MIRL Rwy 1-19

ELEV 4488

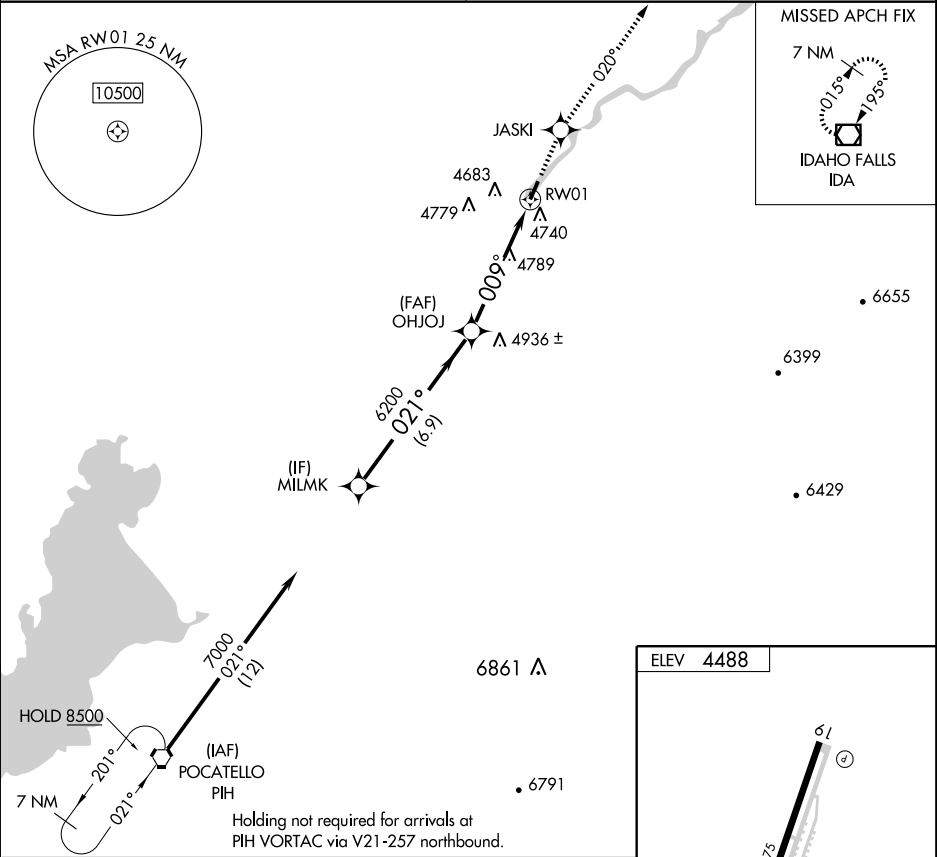
APP CRS	Rwy Idg	N/A
009°	TDZE	N/A
	Apt Elev	4488

▼ Use Pocatello Rgnl altimeter setting, when not received
▲ NA use Idaho Falls Rgnl altimeter setting.
DME/DME RNP-0.3 NA.

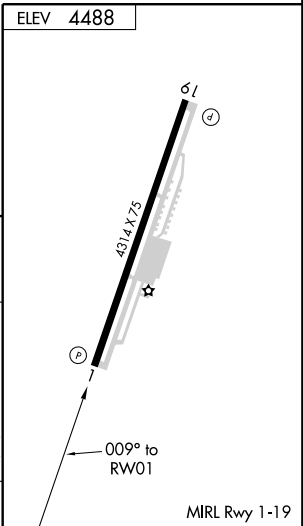
MISSED APPROACH: Climb to 7000 direct JASKI and via 020° track to IDA VOR/DME and hold.

SALT LAKE CITY CENTER
128.35 239.25

UNICOM
122.8 (CTAF)



	MILMK			
	7000	OHJOJ	JASKI	IDA
	021°	009°	020° track	
	6.9 NM	5.2 NM		
CATEGORY	A	B	C	D
CIRCLING	5380-1¼ 892 (900-1¼)	5380-2¾ 892 (900-2¾)	5380-3 892 (900-3)	



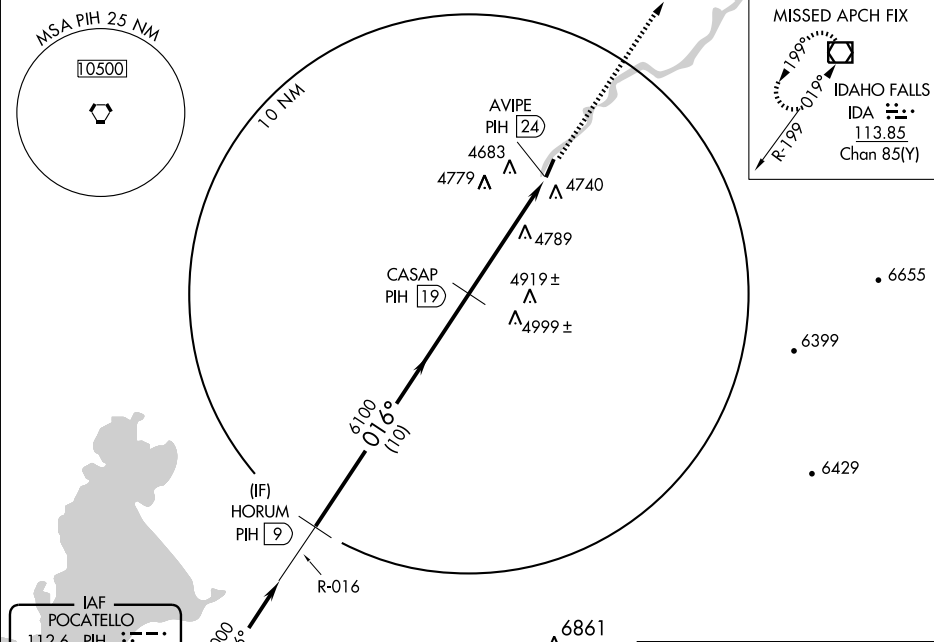
VORTAC PIH 112.6 Chan 73	APP CRS 016°	Rwy Idg TDZE Apt Elev	N/A N/A 4488
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▼
▲NA Use Pocatello Rgnl altimeter setting, when not received use Idaho Falls Rgnl altimeter setting.

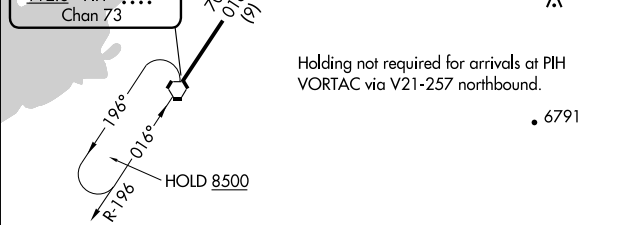
MISSED APPROACH: Climb to 7000 direct IDA VOR/DME and hold.

SALT LAKE CITY CENTER
128.35 239.25

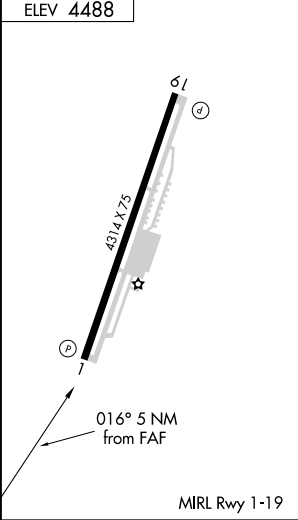
UNICOM
122.8 (CTAF)



Holding not required for arrivals at PIH VORTAC via V21-257 northbound.

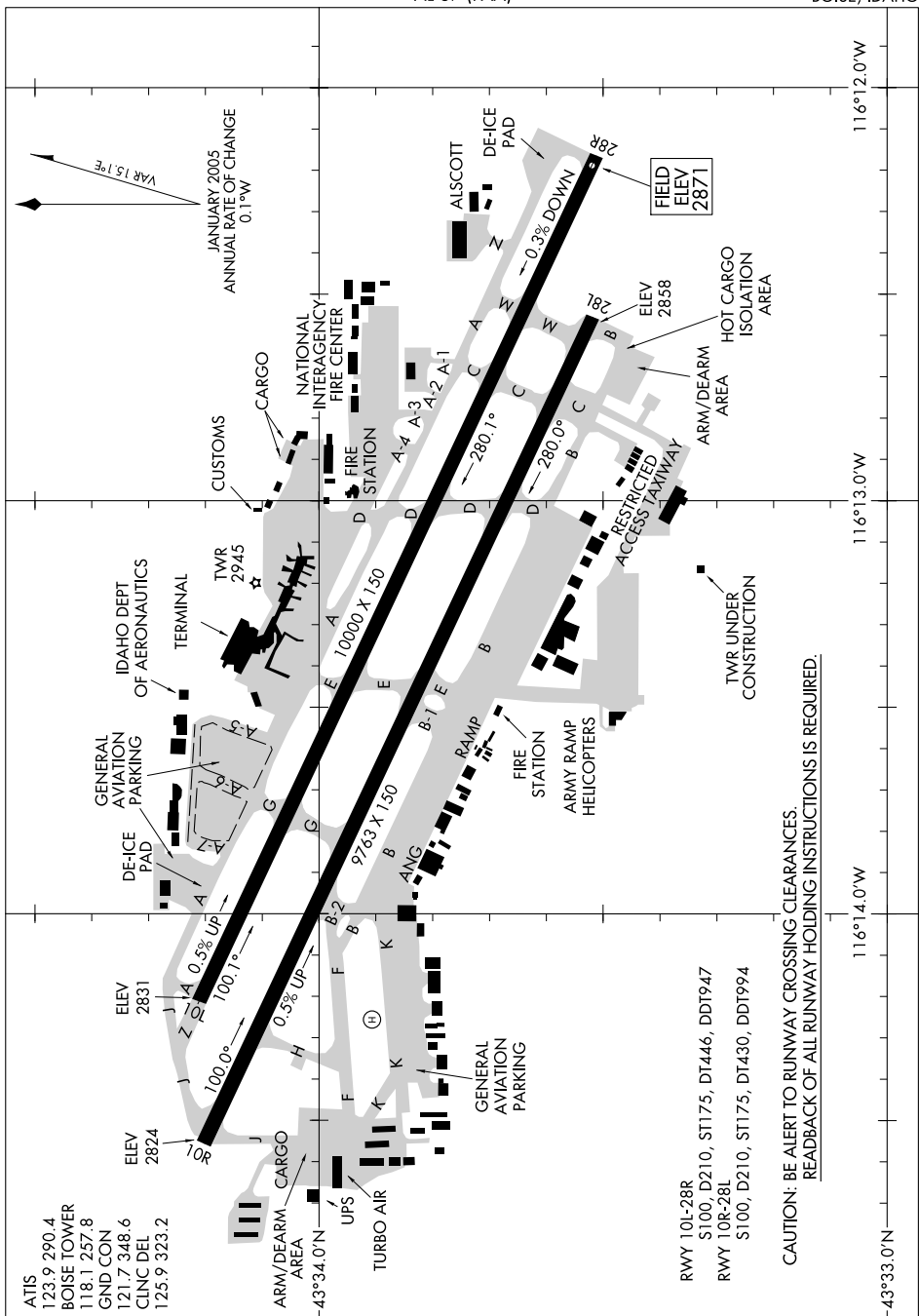


Procedure Turn NA	HORUM PIH 9	CASAP PIH 19	7000 ↑ IDA 113.85
	7000	6100	AVIPE PIH 24
	016°	2.97° TCH 40	
	10 NM	5 NM	
CATEGORY	A	B	C
CIRCLING	5460-1¼ 972 (1000-1¼)	5460-1½ 972 (1000-1½)	5460-3 972 (1000-3)



AIRPORT DIAGRAM

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)
AL-57 (FAA) BOISE, IDAHO



ATIS
123.9 290.4
BOISE TOWER
118.1 257.8
GND CON
121.7 348.6
CLNC DEL
125.9 323.2

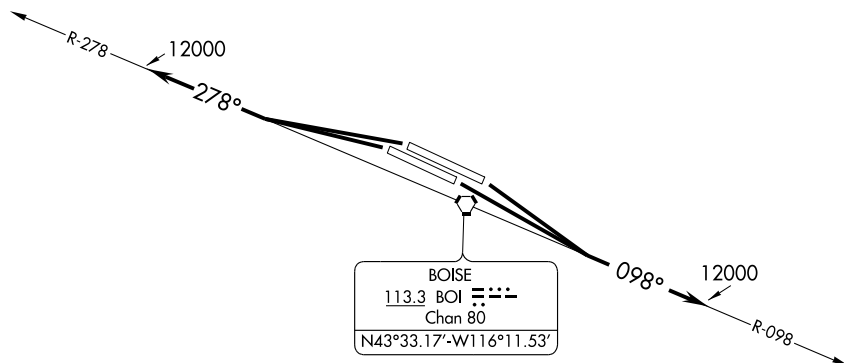
RWY 10L-28R
S100, D210, ST175, DT446, DDT947
RWY 10R-28L
S100, D210, ST175, DT430, DDT994

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
REARBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

NW-1, 03 JUN 2010 to 01 JUL 2010

BOISE ONE DEPARTURE

ATIS
 123.9 290.4
 CLNC DEL
 125.9 323.2
 GND CON
 121.7 348.6
 BOISE TOWER
 118.1 257.8
 BOISE DEP CON
 126.9 351.85 (279°-097°)
 119.6 269.4 (098°-278°)



NOTE: Chart not to scale.

NOTE: RADAR Required

TAKE-OFF MINIMUMS

Rwy 28L/R: Standard.

Rwy 10L/R: Standard with minimum climb of 240' per NM to 9100. ATC climb of 420' per NM to 7000'.

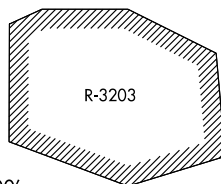
TAKE-OFF OBSTACLE NOTES

Rwy 10L: DME antenna 5' from DER, 415' right of centerline, 21' AGL/2881' MSL.

Light on building 271' from DER, 567' left of centerline, 29' AGL/2889' MSL.

Equipment on road 462' from DER, 444' left of centerline, 17' AGL/2887' MSL.

Rwy 28R: Anemometer 452' from DER, 306' left of centerline, 11' AGL/2842' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10L/R: Climb to 12000' via BOI VORTAC R-098, Thence . . .

TAKE-OFF RUNWAY 28L/R: Climb to 12000' via BOI VORTAC R-278, Thence . . .

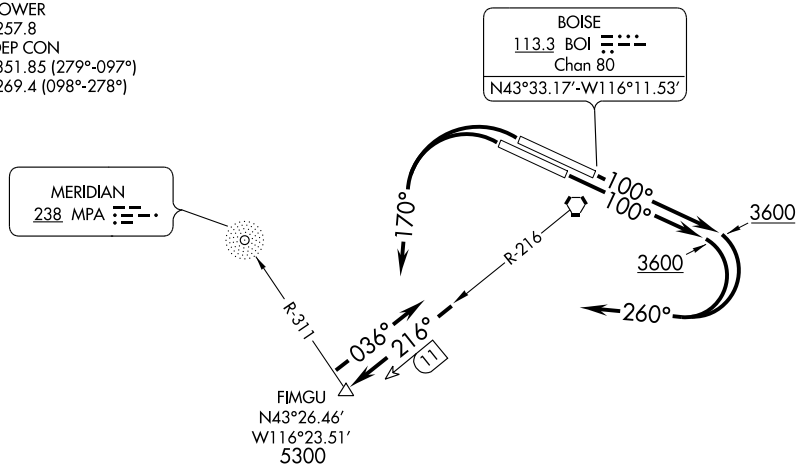
. . . Expect RADAR vectors to assigned route, expect filed altitude 10 minutes after departure.

LOST COMMUNICATIONS: If not in contact with Boise Departure Control at 10000' or assigned altitude, if lower, continue climb to assigned altitude and thence via assigned route.

GOWEN ONE DEPARTURE (OBSTACLE)

BOISE, IDAHO

ATIS
 123.9 290.4
 CLNC DEL
 125.9 323.2
 GND CON
 121.7 348.6
 BOISE TOWER
 118.1 257.8
 BOISE DEP CON
 126.9 351.85 (279°-097°)
 119.6 269.4 (098°-278°)



NOTE: Chart not to scale.

NOTE: ADF or DME Required

TAKE-OFF MINIMUMS

Rwy 28L/R: Standard.

Rwy 10L: Standard with minimum climb of 208' per NM to 4300 or 5500-3 for climb in visual conditions.

Rwy 10R: Standard with minimum climb of 205' per NM to 4300 or 5500-3 for climb in visual conditions.

TAKE-OFF OBSTACLE NOTES

Rwy 10L: DME antenna 5' from DER, 415' right of centerline, 21' AGL/2881' MSL.

Light on building 271' from DER, 567' left of centerline, 29' AGL/2889' MSL.

Equipment on road 462' from DER, 444' left of centerline, 17' AGL/2887' MSL.

Rwy 28R: Anemometer 452' from DER, 306' left of centerline, 11' AGL/2842' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10L/R: Climb heading 100° to 3600 then climbing right turn heading 260° to intercept and climb via BOI VORTAC R-216 outbound to cross FIMGU INT/BOI 11 DME fix at or above 5300 then via BOI R-216 to cross BOI VORTAC at or above MEA/MCA for assigned route of flight or climb in visual conditions to cross Boise Air Terminal/Gowen Field Airport at or above MEA/MCA before proceeding on assigned route of flight.

TAKE-OFF RUNWAY 28L/R: Climbing left turn heading 170° to intercept and climb via BOI VORTAC R-216 outbound to cross FIMGU INT/BOI 11 DME fix at or above 5300 then via BOI R-216 to cross BOI VORTAC at or above MEA/MCA for assigned route of flight.

LOC I-BOI <u>111.1</u>	APCH CRS 100°	Rwy Idg 9763 TDZE 2836 Arpt Elev 2871
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JAI-57 [USAF]

BOISE AIR TERMINAL (GOWEN FLD) (KBOI)

T * When ALS inop, increase RVR to 40 and vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase CAT CD RVR to 50 and vis to 1 mile, CAT E RVR to 60 and vis to $1\frac{1}{4}$ miles.

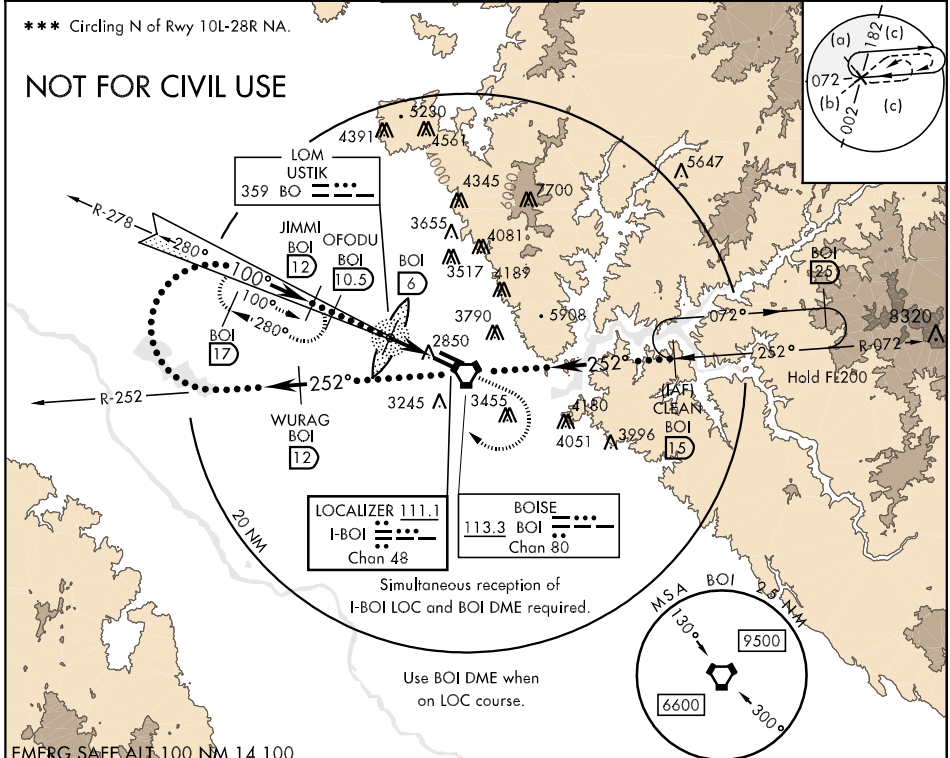


MISSED APPROACH: Climb to 3700 then climbing right turn to 5000 via heading 320° to intercept BOI VORTAC R-278 then direct JIMM INT and hold.

ATIS	BOISE APP CON	BOISE TOWER	GND CON	CLNC DEL	ASOS
123.9 290.4	119.6 269.4	118.1 257.8	121.7 348.6	125.9 323.2	

*** Circling N of Rwy 10L-28R NA.

NOT FOR CIVIL USE



NW-1, 03 JUN 2010 to 01 JUL 2010

Altitude Profile Data:

Category	C	D	E
S-ILS 10R *	3036/24	200	(200-½)
S-LOC 10R **	3160/24 324 (400-½)	3160/40	324 (400-¾)
CIRCLING ***	3440-1½ 569 (600-1½)	3440-2 569 (600-2)	3820-3 949 (1000-3)

BOISE, IDAHO

43°34'N-116°13'W

BOISE AIR TERMINAL (GOWEN FLD) (KBOI)

Amdt 3 10070

LH 118 LOG/DME DIA 105

VORTAC BOI 113.3 Chan 80	APCH CRS 098°	Rwy Idg TDZE Arprt Elev 9763 2836 2871	JAL-57 [USAF]	BOISE AIR TERMINAL (GOWEN FLD)	(KBOI)
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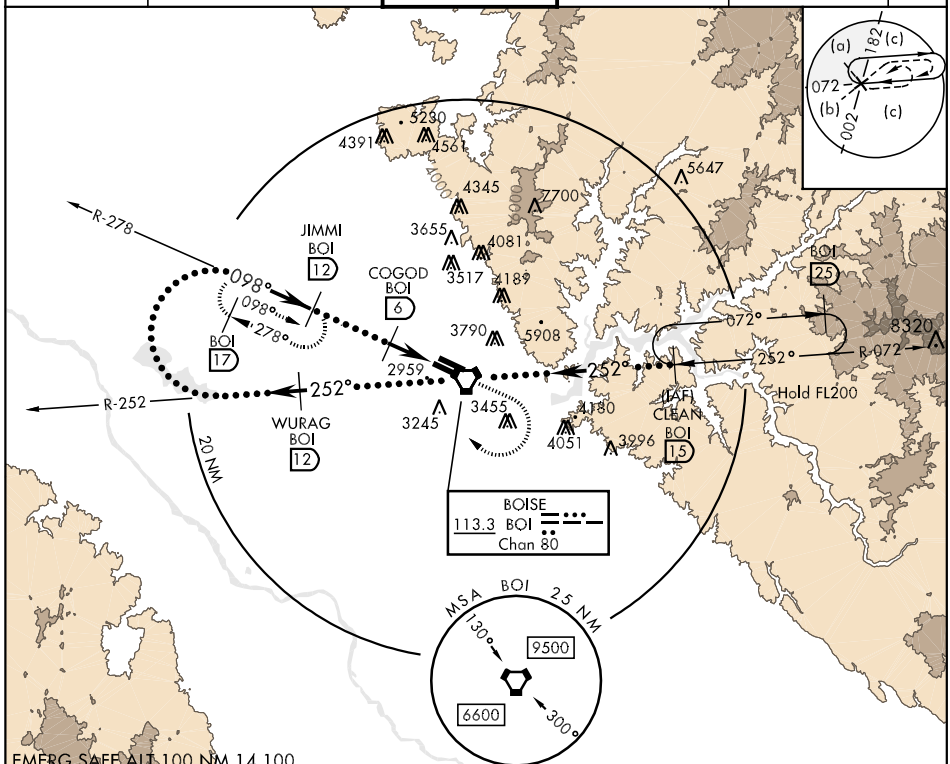
▼ * When ALS inop, increase CAT DE RVR to 60 and vis to 1¼ miles.

** Circling N of Rwy 10L-28R NA.

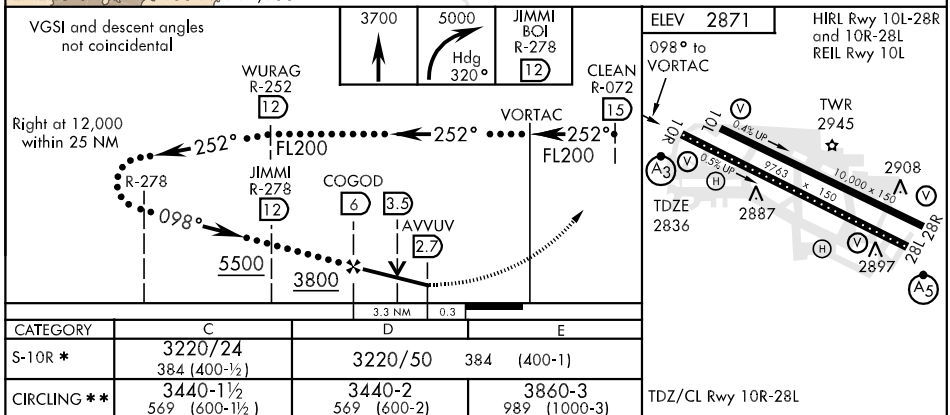


MISSED APPROACH: Climb to 3700 then climbing right turn to 5000 via heading 320° to intercept BOI VORTAC R-278 then direct JIMMI/12 DME and hold

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2	ASOS
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EMERG SAFE ALT 100 NM 14,100




BOISE, IDAHO	43°34'N-116°13'W	BOISE AIR TERMINAL (GOWEN FLD)	(KBOI)
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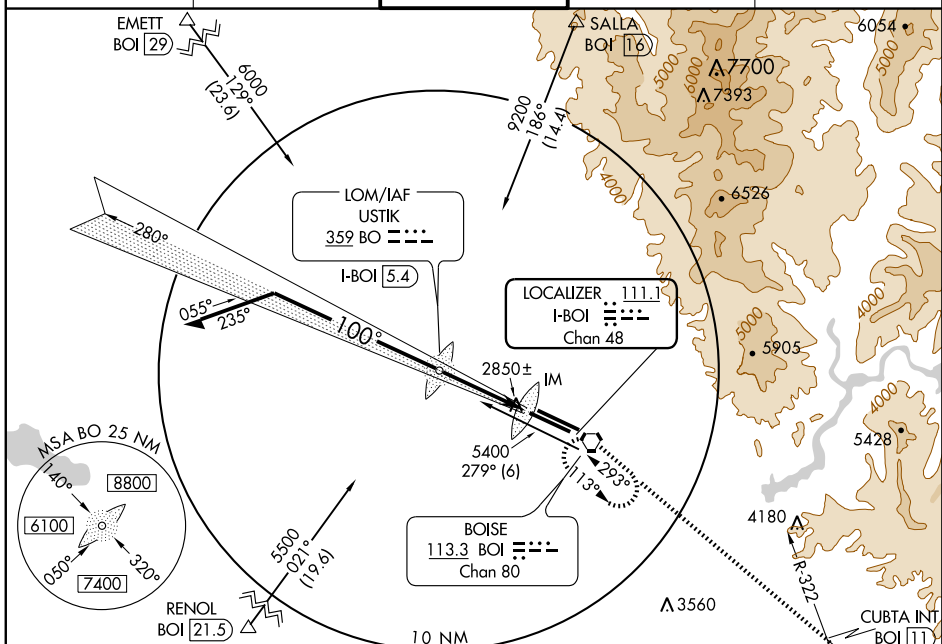
LOC/DME I-BOI 111.1 Chan 48	APP CRS 100°	Rwy Idg 10R TDZE Apt Elev	9763 2836 2871	Rwy Idg 10L TDZE Apt Elev	10000 2844 2871
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ILS or LOC RWY 10R

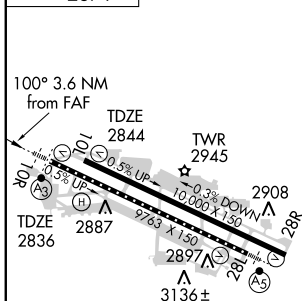
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

<p>⚠ Circling NA north of Rwy. 10L-28R. Visibility reduction by helicopters NA for sidestep.</p>	SSALR 	MISSED APPROACH: Climb to 6000 via BOI VORTAC R-113 to CUBTA INT/BOI 11 DME, and continue climbing right turn to 6000 direct BOI VORTAC and hold.
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ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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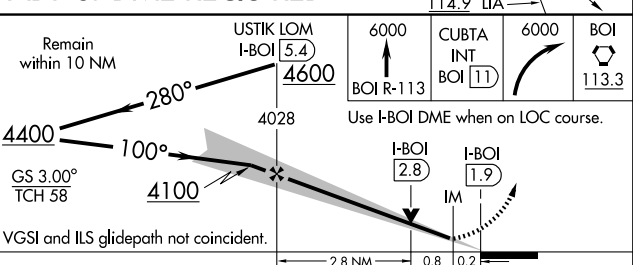
ELEV 2871



REIL Rwy 10L
TDZ/CL Rwys 10R and 28L
HIRL Rwys 10L-28R and 10R-28L

FAF to MAP 3.6 NM					
Knots	60	90	120	150	180
Min:Sec	3:36	2:24	1:48	1:26	1:12

ADF or DME REQUIRED



CATEGORY	A	B	C	D
S-ILS 10R	3036/18 200 (200-½)			
S-LOC 10R	3200/24 364 (400-½)			3200/40 364 (400-¾)
SIDESTEP RWY 10L	3200-1	356 (400-1)	3200-1½ 356 (400-1½)	3200-2 356 (400-2)
CIRCLING	3440-1 569 (600-1)	3440-1 569 (600-1)	3440-1½ 569 (600-1½)	3440-2 569 (600-2)


LOC/DME I-BOI	APP CRS	Rwy Idg	9763
111.1	100°	TDZE	2836
Chan 48		Apt Elev	2871

ILS RWY 10R (CAT II)

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

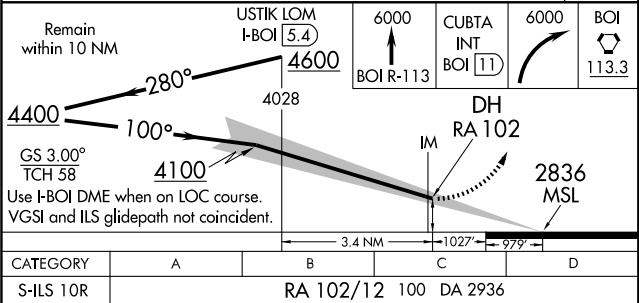
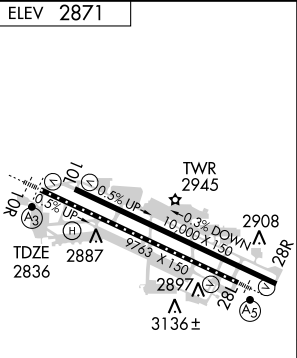
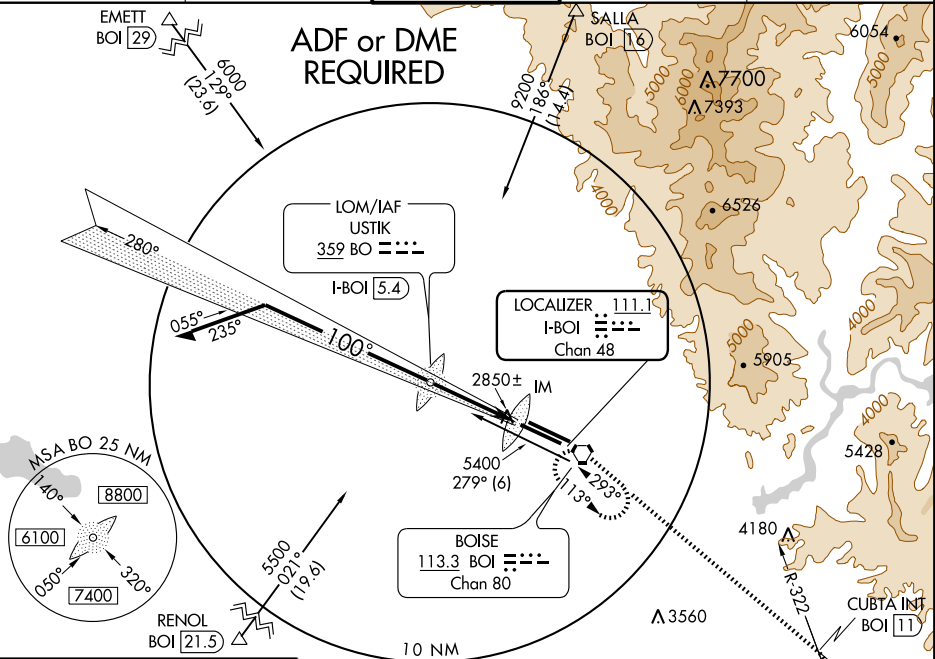
⚠ Circling NA north of Rwy 10L-28R.
Procedure does not meet ICAO standard for ALSF/TDZ/CL lighting systems. Authorization to conduct this approach requires specific OPSSPEC approval or LOA for this runway.

SSALR



MISSED APPROACH: Climb to 6000 via BOI VORTAC R-113 to CUBTA INT/BOI 11 DME, and continue climbing right turn to 6000 direct BOI VORTAC and hold.

ATIS	BOISE APP CON	BOISE TOWER	GND CON	CLNC DEL
123.9 290.4	119.6 269.4	118.1 257.8	121.7 348.6	125.9 323.2



REIL Rwy 10L
TDZ/CL Rwy 10R and 28L
HIRL Rwy 10L-28R and 10R-28L

CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

NW-1, 03 JUN 2010 to 01 JUL 2010

LOC/DME I-BOI 111.1 Chan 48	APP CRS 280°	Rwy Idg TDZE Apt Elev	9763 2858 2871
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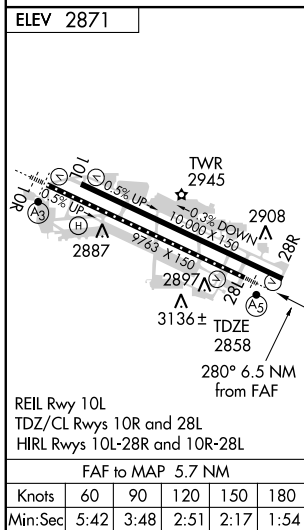
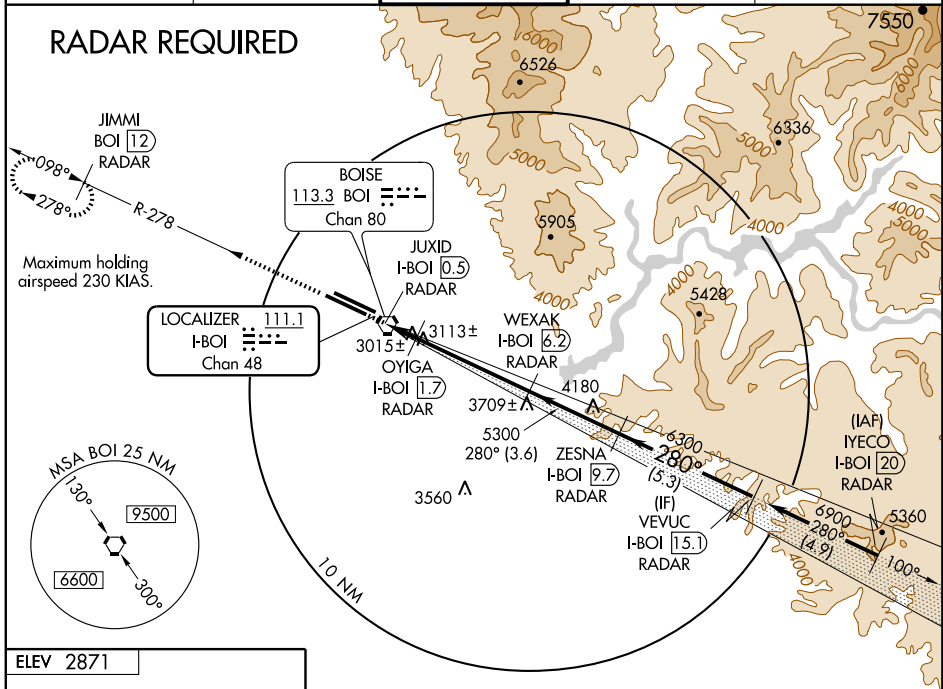
LOC BC RWY 28L

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

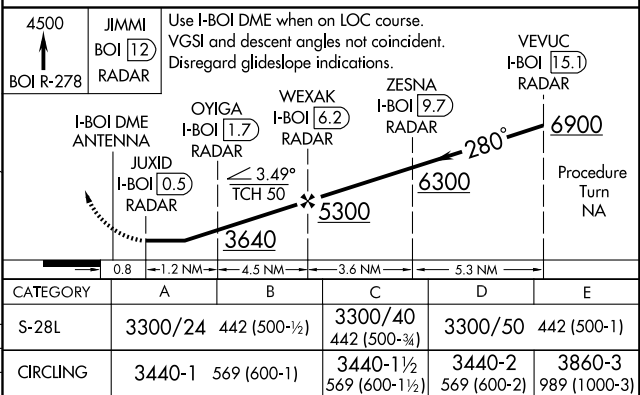
<p>▲ For inoperative MALS, increase S-28L Cat. E visibility to 1½.</p> <p>Circling NA north of Rwy 10L-28R. DME or RADAR required.</p>	<p>MALS</p> <p>(A5)</p>	<p>MISSED APPROACH: Climb to 4500 via BOI VORTAC R-278 to JIMMI/12 DME/RADAR and hold.</p>
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ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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RADAR REQUIRED




BACK COURSE



BO NDB 359	APP CRS 102°	Rwy Idg 9763 TDZE 2836 Apt Elev 2871
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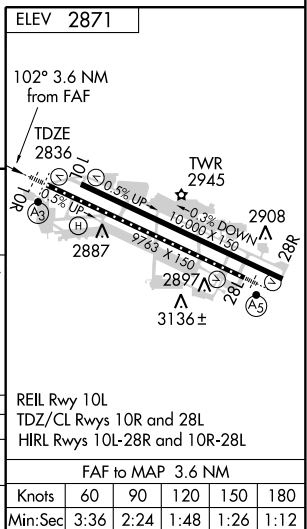
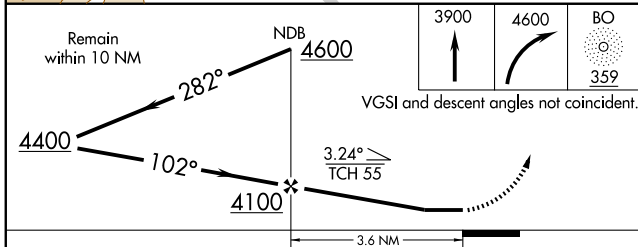
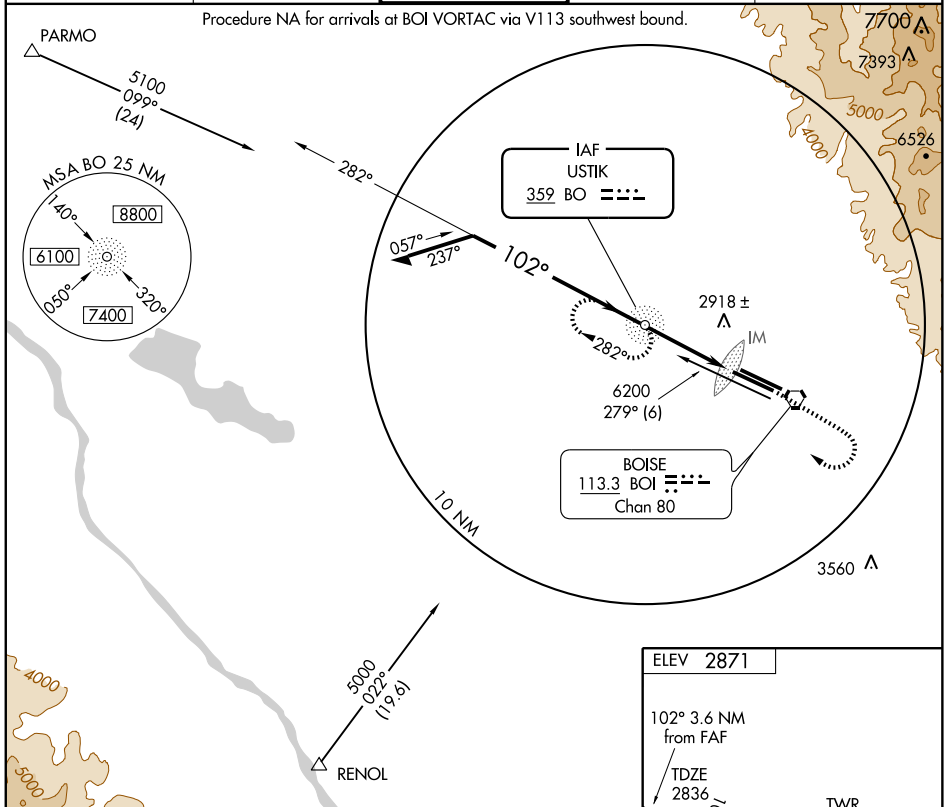
NDB RWY 10R

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

<p>T For inoperative MALSR, increase S-10R Cat C visibility to RVR 5000. Circling NA north of Rwy 10L-28R.</p>	<p>SSALR</p> 	<p>MISSED APPROACH: Climb to 3900 then climbing right turn to 4600 direct BO NDB and hold.</p>
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ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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Procedure NA for arrivals at BOI VORTAC via V113 southwest bound.



WAAS CH 78102 W10A	APP CRS 100°	Rwy Idg 10000 TDZE 2844 Apt Elev 2871
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RNAV (GPS) Y RWY 10L

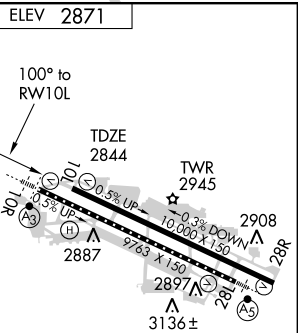
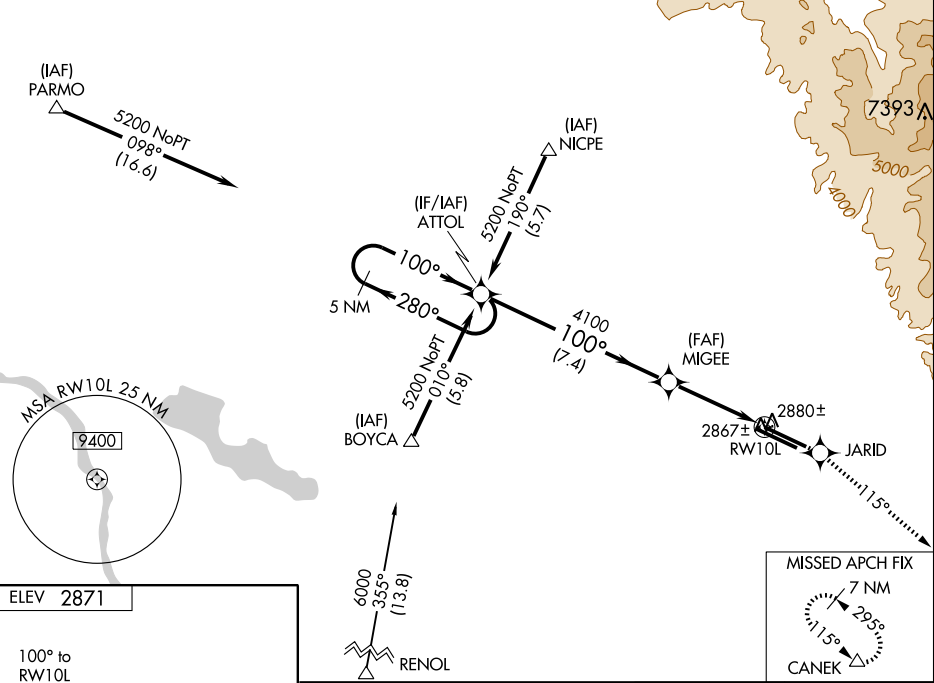
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 42°C (108°F).
Circling NA north of Rwy 10L and 28R. DME/DME RNP- 0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 7200 direct JARID and via track 115° to CANEK and hold.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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Procedure NA for arrivals at RENOL via V113 southwest bound, and arrivals at PARMO via V500 northwest bound.



5 NM Holding Pattern		ATTOL	7200	JARID	trk 115°	CANEK
5200		280°	100°	100°	4100	
GS 3.00° TCH 53		7.4 NM	2.6 NM	1.2		
CATEGORY	A	B	C	D		
LPV DA	3094-1		250 (300-1)			
LNAV/VNAV DA	3173-1¼		329 (400-1¼)			
LNAV MDA	3280-1	436 (500-1)	3280-1¼ 436 (500-1¼)	3280-1½ 436 (500-1½)		
CIRCLING	3440-1	569 (600-1)	3440-1½ 569 (600-1½)	3440-2 569 (600-2)		

REIL Rwy 10L
TDZ/CL Rwy 10R and 28L
HIRL Rwy 10L-28R and 10R-28L

WAAS CH 40203 W10B	APP CRS 100°	Rwy Idg TDZE 2836 Apt Elev 2871
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
RNAV (GPS) Y RWY 10R

BOISE AIR TERMINAL (GOWEN FIELD) (BOT)

⚠ For inoperative SSALR, increase LNAV Cat. D visibility to RVR 6000.

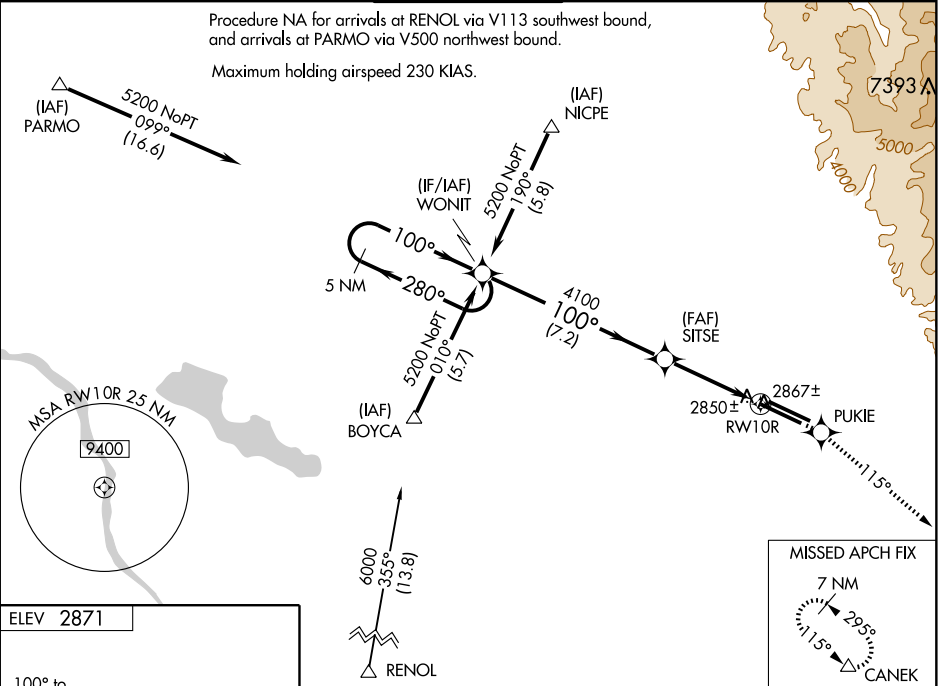
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 42°C (107°F).
Circling NA north of Rwys 10L and 28R.
DME/DME RNP- 0.3 NA.

SSALR



MISSED APPROACH: Climb to 7200
direct PUKIE and via track 115° to
CANEK and hold.

ATIS 123.9 290.4	BOISE APP CON 119.6 269.4	BOISE TOWER 118.1 257.8	GND CON 121.7 348.6	CLNC DEL 125.9 323.2
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CATEGORY		A	B	C	D	E
LPV	DA	3086/24 250 (300-½)				
LNAV/VNAV	DA	3189/40 353 (400-¾)				
LNAV	MDA	3240/24	404 (400-½)	3240/40 404 (400-¾)	3240/50	404 (400-1)
CIRCLING		3440-1	569 (600-1)	3440-1½ 569 (600-1½)	3440-2 569 (600-2)	3860-3 989 (1000-3)

WAAS CH 77702 W28A	APP CRS 280°	Rwy Idg 9763 TDZE 2858 Apt Elev 2871
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RNAV (GPS) Y RWY 28L
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

T Circling NA north of Rwy 10L-28R. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F).
A DME/DME RNP-0.3 NA.
 For inoperative MALSR, increase LPV visibility to RVR 5000 all Cats, LNAV/VNAV Cat E to 1½, and LNAV Cat E to 2¼.

MALSR



MISSED APPROACH: Climb to 6000 direct JIMMI and hold, continue climb-in-hold to 6000.

ATIS
123.9 290.4

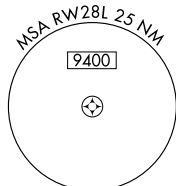
BOISE APP CON
119.6 269.4

BOISE TOWER
118.1 257.8

GND CON
121.7 348.6

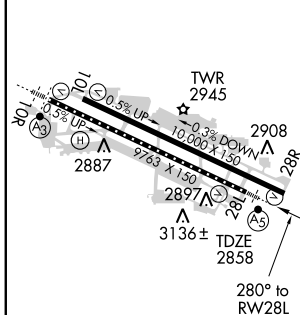
CLNC DEL
125.9 323.2

Maximum holding
airspeed 230 KIAS.

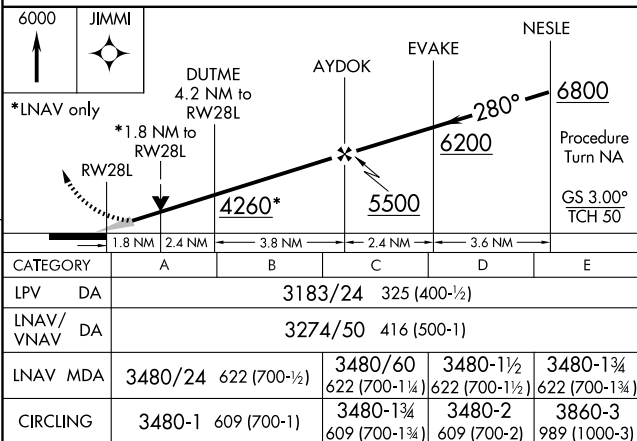


ELEV 2871

Procedure NA for arrivals at CANEK
via V4-253-330 southeast bound.



REIL Rwy 10L
TDZ/CL Rwy 10R and 28L
HIRL Rwy 10L-28R and 10R-28L



WAAS CH 65803 W28B	APP CRS 280°	Rwy Idg 10000 TDZE 2871 Apt Elev 2871
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RNAV (GPS) Y RWY 28R
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F).
DME/DME RNP-0.3 NA. Circling NA north of Rwy 10L-28R.

MISSED APPROACH: Climb to 6000 direct ATTOL and hold, continue climb-in-hold to 6000.

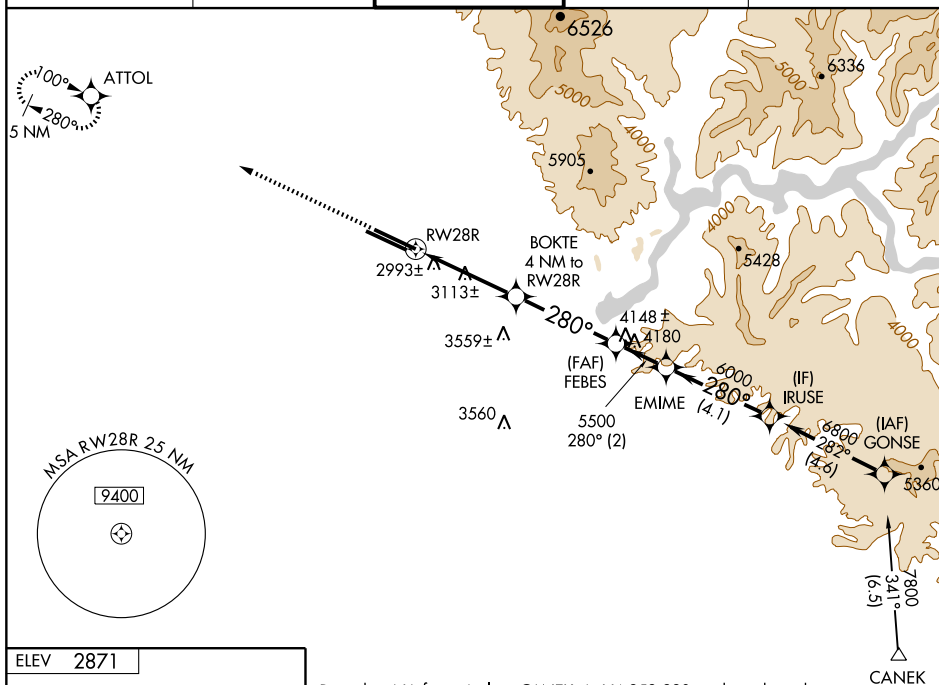
ATIS
123.9 290.4

BOISE APP CON
119.6 269.4

BOISE TOWER
118.1 257.8

GND CON
121.7 348.6

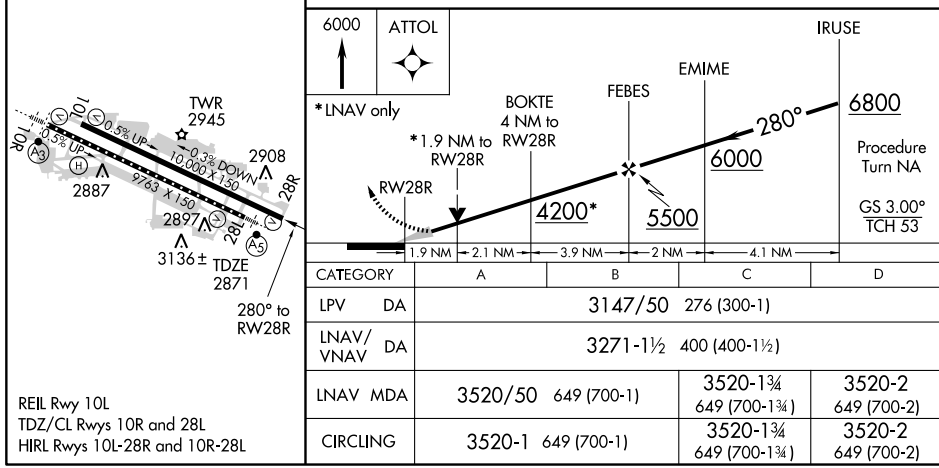
CLNC DEL
125.9 323.2



NW-1. 03 JUN 2010 to 01 JUL 2010

ELEV 2871

Procedure NA for arrivals at CANEK via V4-253-330 southeast bound.



APP CRS	Rwy Idg	10000
100°	TDZE	2844
	Apt Elev	2871

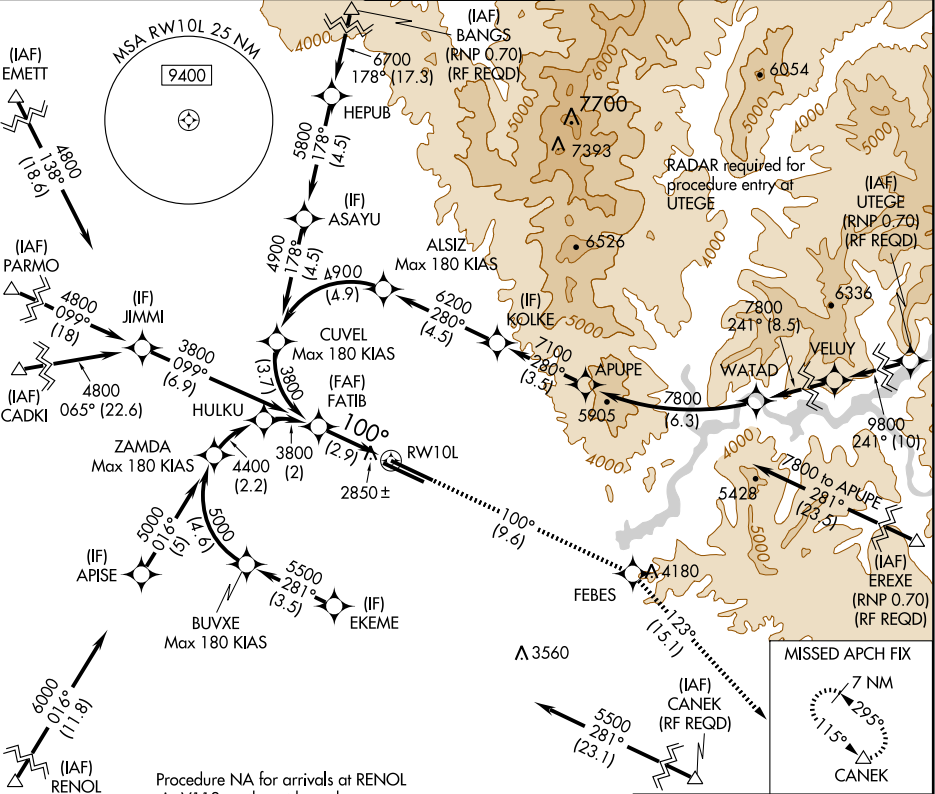
RNAV (RNP) Z RWY 10L

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

GPS required. For uncompensated Baro-VNAV systems, procedure NA below -14°C (7°F) or above 41°C (107°F). When VGSI inoperative, procedure NA at night. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 7200 via track 100° to FEBES and via track 123° to CANEK and hold.

ATIS	BOISE APP CON	BOISE TOWER	GND CON	CLNC DEL
123.9 290.4	119.6 269.4	118.1 257.8	121.7 348.6	125.9 323.2



Procedure Turn NA

GP 3.00° TCH 53

3800

100°

RWY 10L

2.9 NM

FATIB 3800

FEBES

7200

trk 100°

trk 123°

CANEK

CATEGORY	A	B	C	D
RNP 0.18 DA	3145-1 301 (300-1)			
RNP 0.30 DA	3175-1¼ 331 (400-1¼)			

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

REIL Rwy 10L

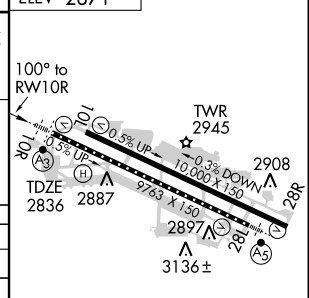
TDZ/CL Rwys 10R and 28L

HIRL Rwys 10L-28R and 10R-28L

RNAV (RNP) Z RWY 10R
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

MISSED APPROACH: Climb to 7200 via track 100° to AYDOK and via track 122° to CANEK and hold.

CLNC DEL
125.9 323.2



REIL Rwy 10L
TDZ/CL Rwy 10R and 28L
HIRL Rwy 10L-28R and 10R-28L

APP CRS	Rwy Idg	9763
280°	TDZE	2858
	Apt Elev	2871

RNAV (RNP) Z RWY 28L

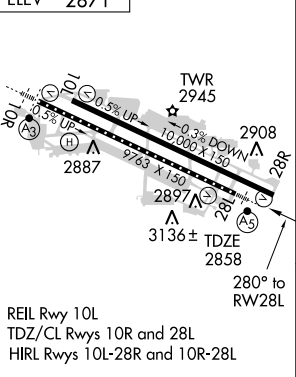
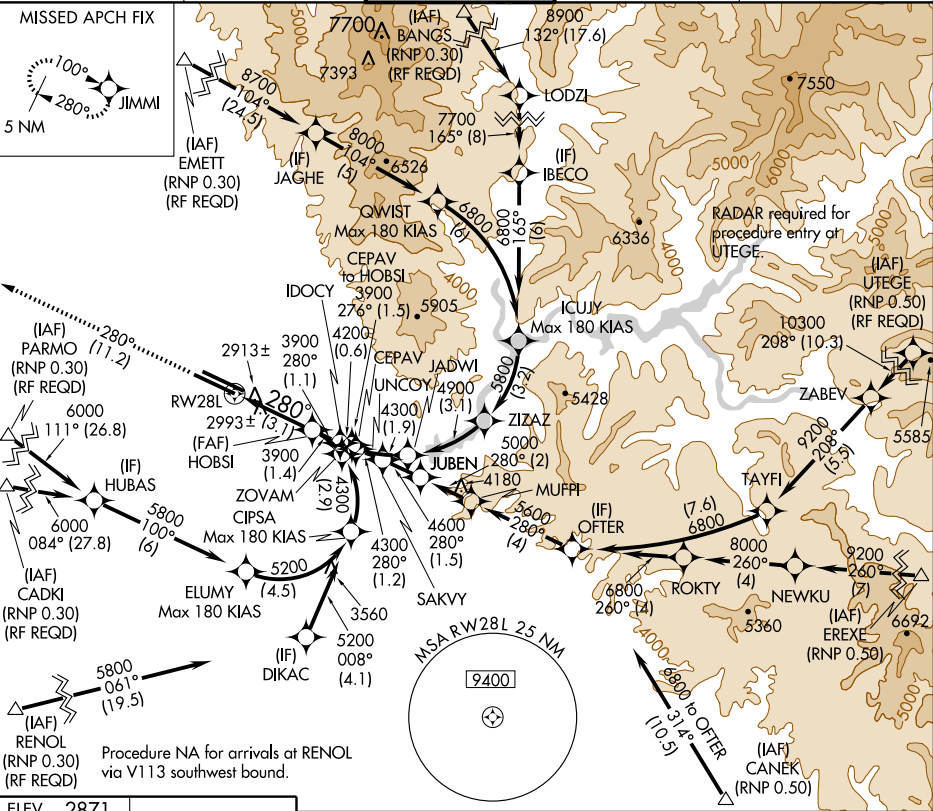
BOISE AIR TERMINAL (GOWEN FIELD) (B1)



GPS required. For uncompensated Baro-VNAV systems, procedure NA below -14°C (7°F) or above 42°C (107°F). For inoperative MALSR increase RNP 0.15 and RNP 0.25 visibility to RVR 6000, and RNP 0.30 to 1½.

MALSR

MISSED APPROACH: Climb to 6000 via track 280° to JIMMI and hold, continue climb-in-hold to 6000.

ATIS	BOISE APP CON	BOISE TOWER	GND CON	CLNC DEL
123.9 290.4	119.6 269.4	118.1 257.8	121.7 348.6	125.9 323.2



6000 ↑ trk 280°		JIMMI 		HOBSI 3900		Procedure Turn NA	
RW28L 		280°		3900		GP 3.00° TCH 50	
		3.1 NM					
CATEGORY		A	B	C	D		
RNP 0.15 DA		3228/40		370 (400-¾)			
RNP 0.25 DA		3250/50		392 (400-1)			
RNP 0.30 DA		3315/60		457 (500-1¼)			
SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED							

APP CRS	Rwy Idg	10000
280°	TDZE	2871
	Apt Elev	2871

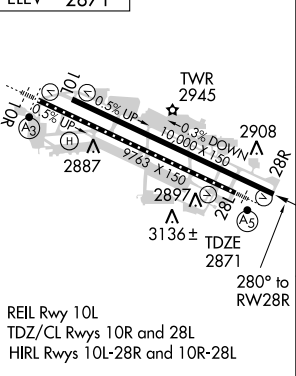
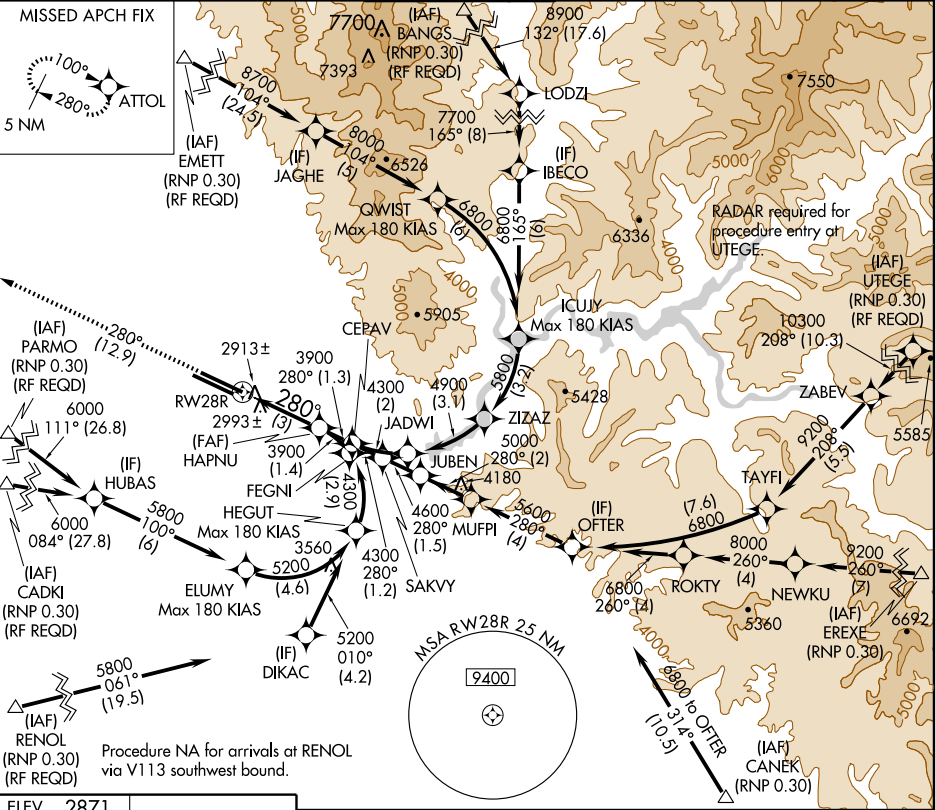
RNAV (RNP) Z RWY 28R

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

GPS required. For uncompensated Baro-VNAV systems, procedure NA below -14°C (7°F) or above 42°C (107°F). Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 6000 via track 280° to ATTOL and hold, continue climb-in-hold to 6000.

ATIS	BOISE APP CON	BOISE TOWER	GND CON	CLNC DEL
123.9 290.4	119.6 269.4	118.1 257.8	121.7 348.6	125.9 323.2



SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED

VOR/DME or TACAN RWY 10L
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

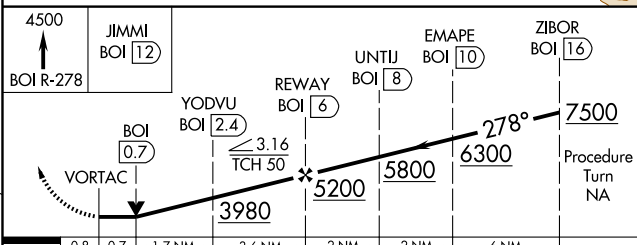
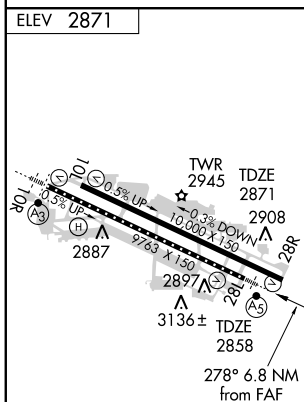
MISSED APPROACH: Climb to 3700 then climbing right turn to 5000 via heading 320° and BOI R-278 to JIMMI INT and hold.

REIL Rwy 10L
TDZ/CL Rwys 10R and 28L
HIRL Rwys 10L-28R and 10R-28L

VOR/DME or TACAN RWY 28L
BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

MISSED APPROACH: Climb to 4500 via BOI
VORTAC R-278 to JIMMI/12 DME and hold.

CLNC DEL
125.9 323.2



CATEGORY	0.6 1.7 NM	3.6 NM	2 NM 2 NM	6 NM	
	A	B	C	D	E
S-28L	3380/24 522 (600-1/2)		3380/50 522 (600-1)	3380/60 522 (600-1 1/4)	
SIDESTEP RWY 28R	3380/60 509 (600-1 1/4)		3380-1 3/4 509 (600-1 3/4)	3380-2 1/4 509 (600-2 1/4)	
CIRCLING	3440-1 569 (600-1)		3440-1 1/2 569 (600-1 1/2)	3440-2 569 (600-2)	3820-3 949 (1000-3)

REIL Rwy 10L
TDZ/CL Rwy 10R and 28L
HIRL Rwy 10L-28R and 10R-28L

VORTAC BOI 113.3 Chan 80	APP CRS 098°	Rwy Idg 9763 TDZE 2833 Apt Elev 2868
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VOR/DME RWY 10R

BOISE AIR TERMINAL (GOWEN FIELD) (BOI)

T Inoperative table does not apply to Cat D.
Circling not authorized north of Rwy 10L-28R.

SSALR



MISSED APPROACH: Climb to 3900 via BOI R-113 within 6 NM, then climbing right turn to 6000 direct BOI VORTAC and hold.

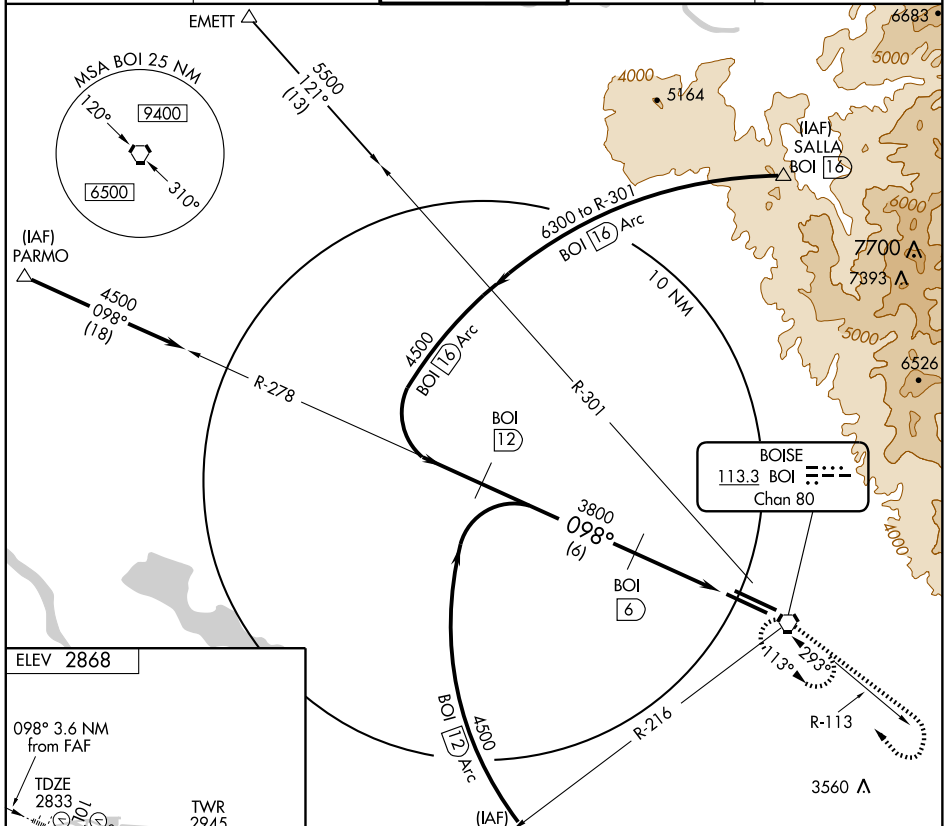
ATIS
123.9 290.4

BOISE APP CON
119.6 269.4

BOISE TOWER
118.1 257.8

GND CON
121.7 348.6

CLNC DEL
125.9 323.2



ELEV	2868
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098° 3.6 NM
from FAF

4500

Procedure Turn
NA

CATEGORY

A

B

D

S-10R

3160/24 327 (300-½)

3160/50
327 (300-1)

CIRCUING

3300-1

3320-1

3320-1½

3420-2

REIL Rwy 10L

TDZ/CL Rwy 10R and 28L

HIRL Rwy 10L-28R and 10R-28L

NW-1. 03 JUN 2010 to 01 JUL 2010

▼

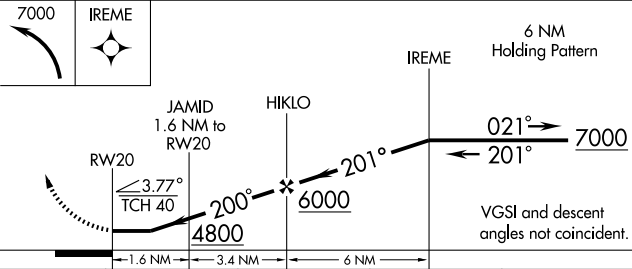
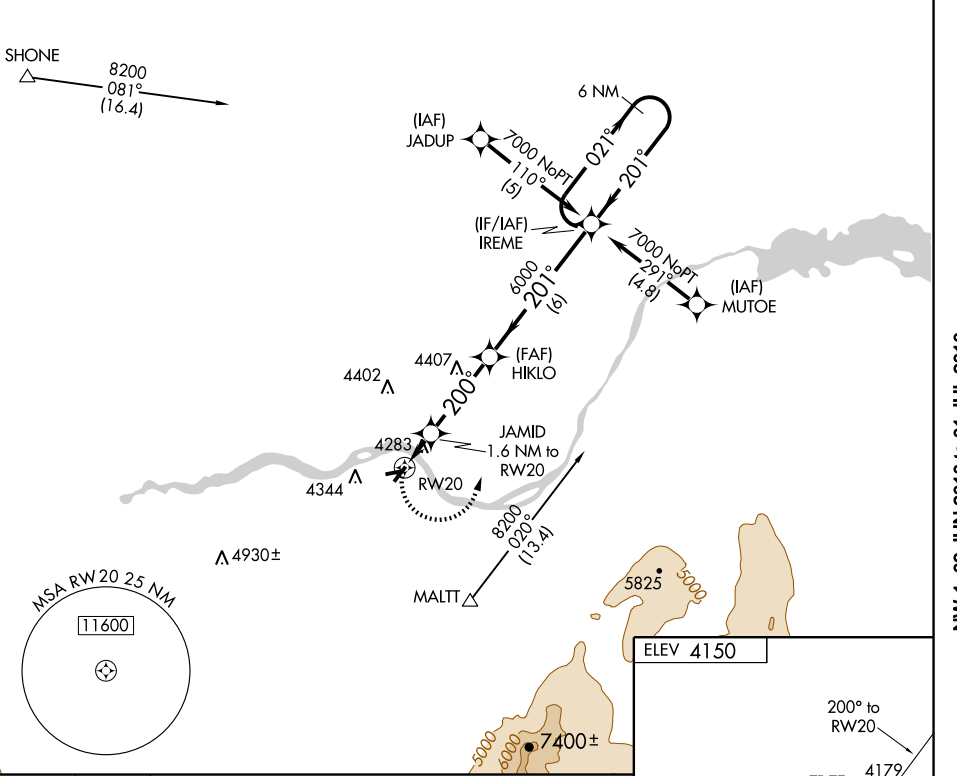
▲NA

If local altimeter setting not received, use Joslin Field-Magic Valley Rgnl altimeter setting and increase all MDAs by 80 feet.

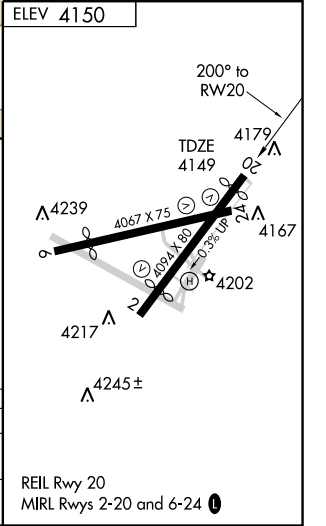
GPS or RNP -0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn to 7000 direct IREME WP and hold.

ASOS 135.575	TWIN FALLS APP CON★ 126.7 353.75	CTAF 122.9 0
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CATEGORY	A	B	C	D
LNAV MDA	4560-1 411 (500-1)		4560-1½ 411 (500-1½)	NA
CIRCLING	4660-1 510 (600-1)		4660-1½ 510 (600-1½)	NA

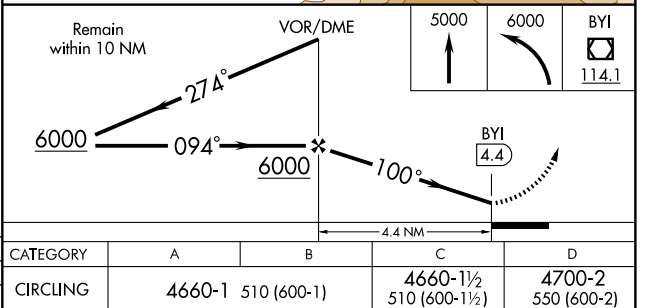
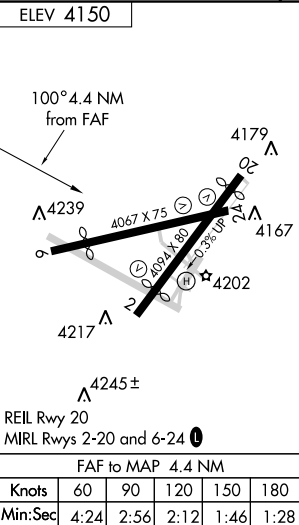
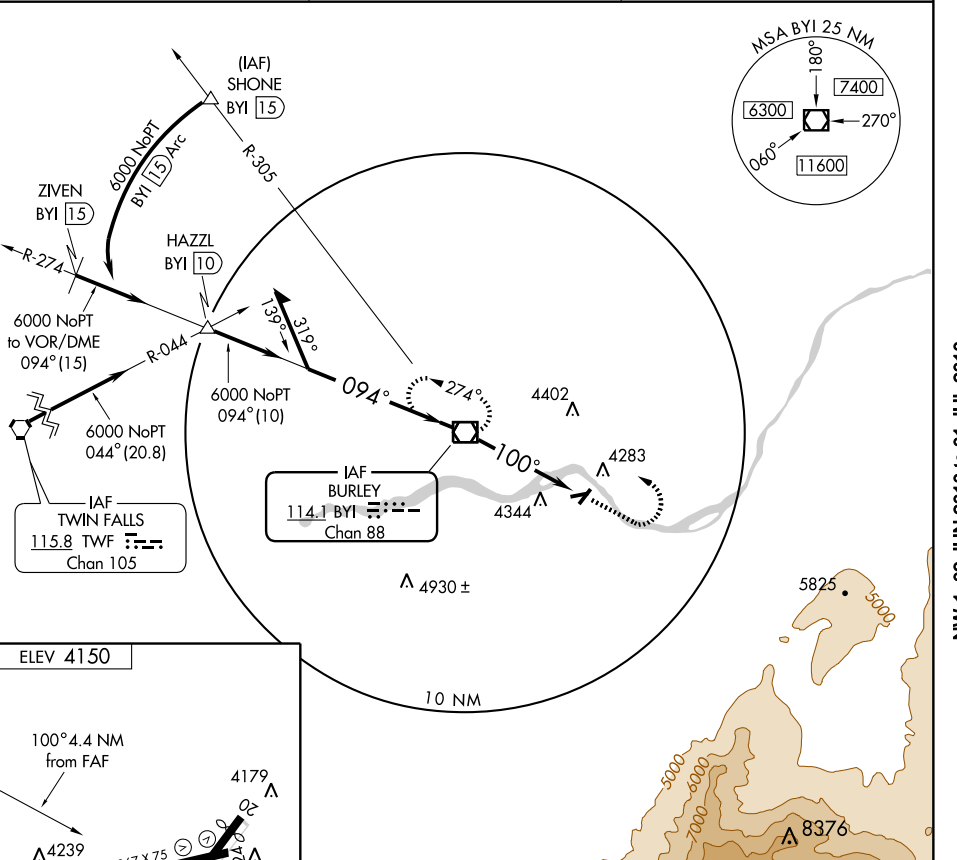


NW-1, 03 JUN 2010 to 01 JUL 2010

▲ If local altimeter setting not received, use Joslin Field-Magic Valley Rgnl altimeter setting and increase all MDAs 80 feet.

▲ MISSED APPROACH: Climb to 5000 then climbing left turn to 6000 direct BYI VOR/DME and hold.

ASOS 135.575	TWIN FALLS APP CON ★ 126.7 353.75	CTAF 122.9
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NW-1. 03 JUN 2010 to 01 JUL 2010

VOR/DME BYI <u>114.1</u> Chan 88	APP CRS 280°	Rwy Idg N/A TDZE N/A Apt Elev 4150
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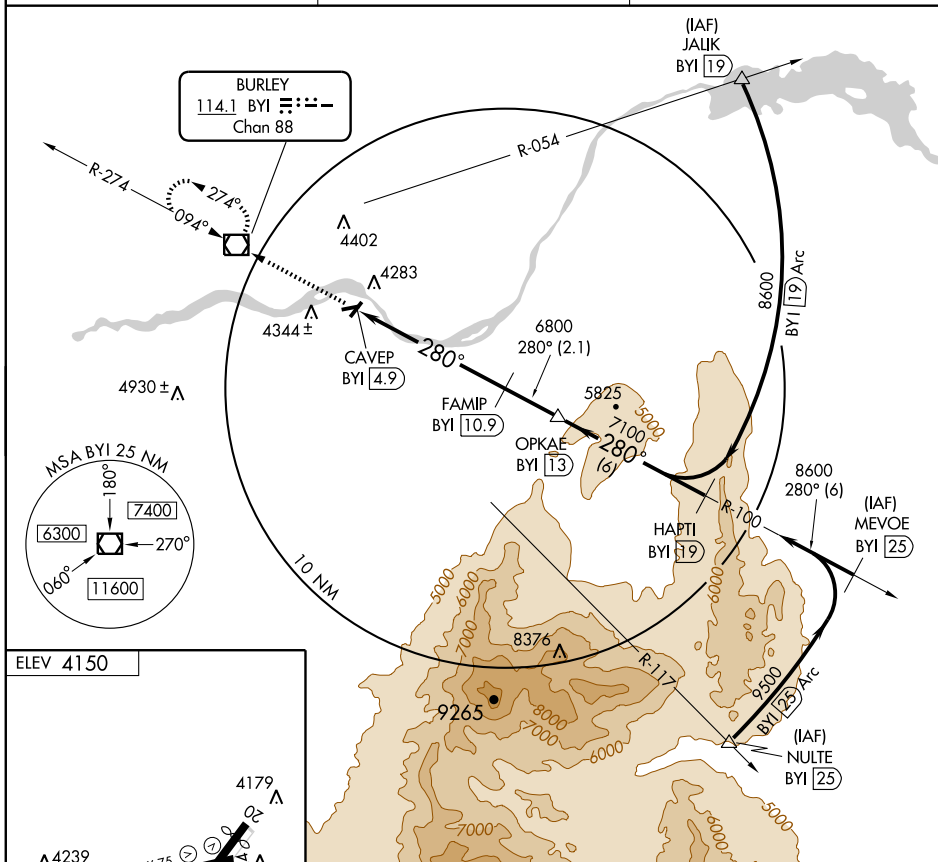
VOR/DME-B
BURLEY MUNI (BYI)

T If local altimeter setting not received, use Joslin Field-Magic
A Valley Rgnl altimeter setting and increase all MDAs 80 feet.

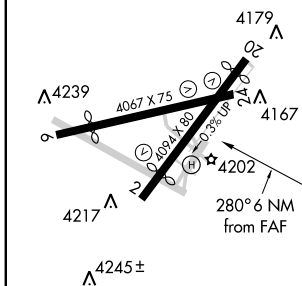
MISSED APPROACH: Climb to 6000 direct BYI VOR/DME and hold.


ASOS
135,575

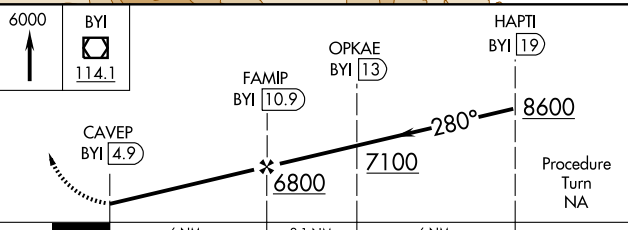
TWIN FALLS APP CON ★
126.7 353.75

CTAF
122.9 **L**

ELEV 4150



6000 ↑	BYI  <u>114.1</u>
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Procedure
Turn
NA

REIL Rwy 20
MIRL Rwy 2-20 and 6-24 **L**

CATEGORY	A	B	C	D
CIRCLING	4660-1	510 (600-1)	4660-1½ 510 (600-1½)	4700-2 550 (600-2)

NDB MPA	APP CRS	Rwy Idg	5500
<u>238</u>	<u>281°</u>	TDZE	<u>2432</u>
		Apt Elev	<u>2432</u>

NDB RWY 30

CALDWELL INDUSTRIAL (EUL)

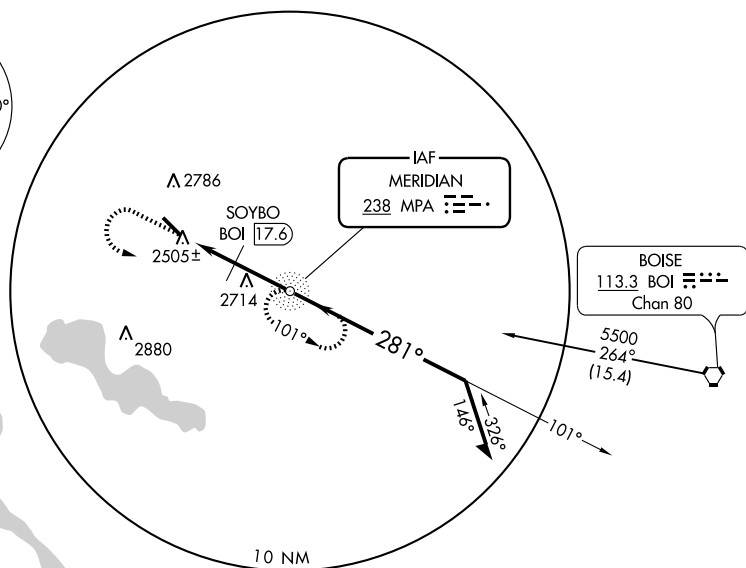
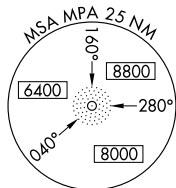
When local altimeter setting not received, use Boise altimeter setting and increase all MDA 120 feet and all visibilities ½ mile.

MISSED APPROACH: Climb to 3500 then climbing left turn to 5400 direct MPA NDB and hold, continue climb-in-hold to 5400.

AWOS-3
135.075

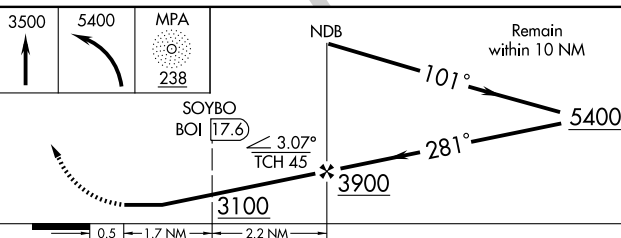
BOISE APP CON
119.6 269.4

UNICOM
122.7 (CTAF)

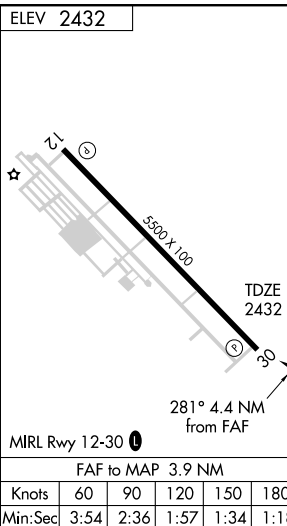


Λ 4316

• 4837



CATEGORY	A	B	C	D
S-30	3100-1	668 (700-1)	3100-1¾ 668 (700-1¾)	3100-2 668 (700-2)
CIRCLING	3100-1	668 (700-1)	3100-1¾ 668 (700-1¾)	3100-2 668 (700-2)
DME MINIMUMS				
S-30	2940-1	508 (600-1)	2940-1½	508 (600-1½)
CIRCLING	3100-1	668 (700-1)	3100-1¾ 668 (700-1¾)	3100-2 668 (700-2)



WAAS
CH 97707
W12A

APP CRS
119°

Rwy Idg	5500
TDZE	2431
Apt Elev	2432

RNAV (GPS) RWY 12

Caldwell Industrial (EUL)



DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
Baro-VNAV NA when using Boise altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F).
When local altimeter setting not received, use Boise altimeter setting and increase all DA/MDA 120 feet and all visibilities ½ mile.

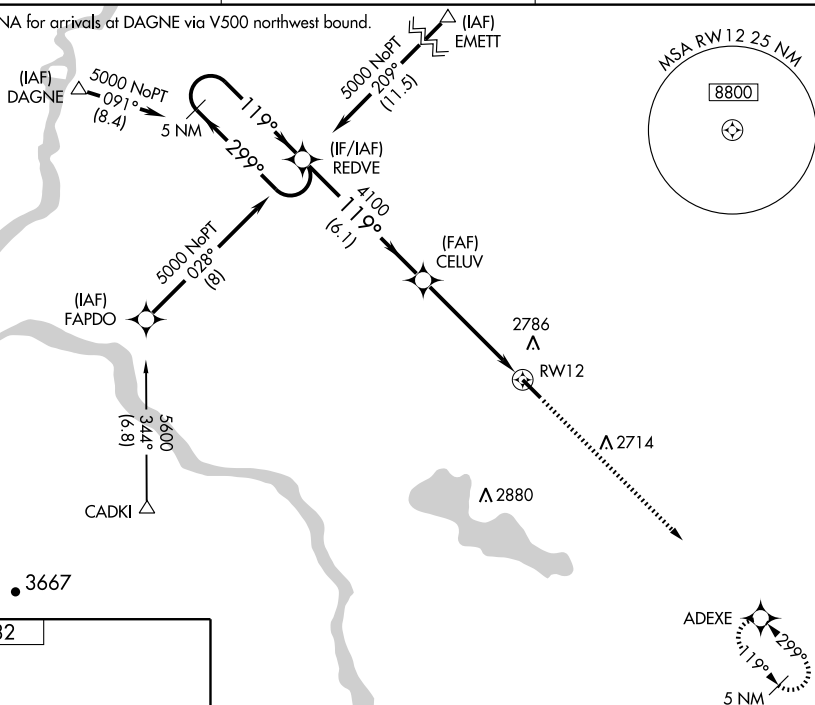
MISSED APPROACH: Climb to 5000
direct ADEXE and hold.

AWOS-3
135,075

BOISE APP CON
119.6 269.4

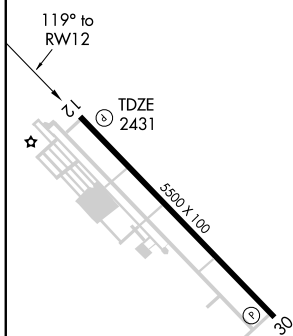
UNICOM
122.7 (CTAF) **L**

Procedure NA for arrivals at DAGNE via V500 northwest bound.



NW-1. 03 JUN 2010 to 01 JUL 2010

ELEV 2432

MIRL Rwy 12-30 **L**

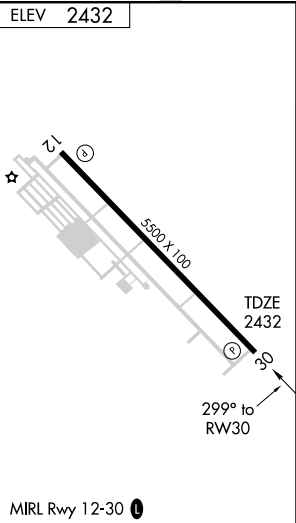
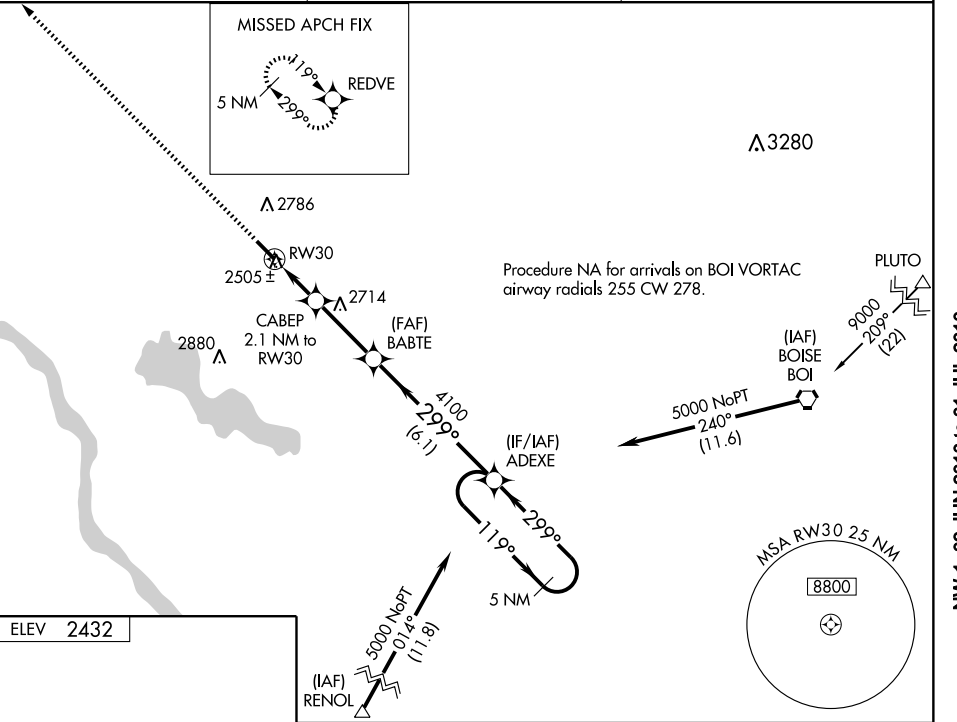
The diagram illustrates the RWY 12 instrument approach procedure. It begins with a holding pattern at 5000 feet, consisting of two turns: a left turn at 299° and a right turn at 119°. The holding pattern is defined by a 5 NM Holding Pattern and a 5000-foot altitude. The approach starts from the holding pattern, passing through REDVE, CELUV, and RWY 12. The distance from REDVE to CELUV is 6.1 NM, and from CELUV to RWY 12 is 5.1 NM. The final approach segment is a straight-in descent to the runway threshold. The approach is classified as a Category A procedure.

CATEGORY	A	B	C	D
LPV DA		2700-1	269 (300-1)	
LNAV/VNAV DA		2994-2	563 (600-2)	
LNAV MDA	2840-1	409 (500-1)	2840-1¼	409 (500-1¼)
CIRCLING	3100-1	668 (700-1)	3100-1¾ 668 (700-1¾)	3100-2 668 (700-2)

⚠ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
⚠ Baro-VNAV NA when using Boise altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F). When local altimeter setting not received, use Boise altimeter setting and increase all DA/MDA 120 feet and all visibilities ½ mile.

MISSED APPROACH: Climb to 5000 direct REDVE and hold.

AWOS-3 135.075	BOISE APP CON 119.6 269.4	UNICOM 122.7 (CTAF) 0
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5000	REDVE	CABEP 2.1 NM to RW30	BABTE	ADEXE	5 NM Holding Pattern
*LNAV only					
		3140*	4100		5000
		2.1 NM	2.9 NM	6.1 NM	
CATEGORY	A	B	C	D	
LPV DA	2687-1	255 (300-1)			
LNAV/VNAV DA	2822-1¼	390 (400-1¼)			
LNAV MDA	2880-1 448 (500-1)	2880-1¼ 448 (500-1¼)	2880-1½ 448 (500-1½)		
CIRCLING	3100-1 668 (700-1)	3100-1¾ 668 (700-1¾)	3100-2 668 (700-2)		

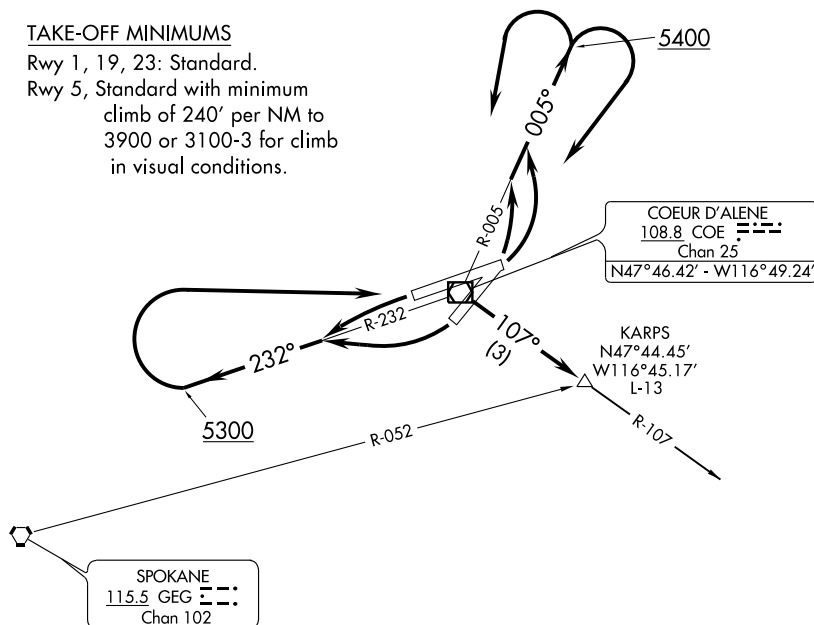
NW-1, 03 JUN 2010 to 01 JUL 2010

AWOS-3 135.075
SPOKANE DEP CON
132.1 263.0
UNICOM (CTAF) 122.8

TAKE-OFF MINIMUMS

Rwy 1, 19, 23: Standard.

Rwy 5, Standard with minimum
climb of 240' per NM to
3900 or 3100-3 for climb
in visual conditions.



TAKE-OFF OBSTACLE NOTES

Rwy 19, Trees beginning 165' from DER, 276' right of centerline, up to 109' AGL/2399' MSL.
Tree 2914' from DER, 425' left of centerline, 38' AGL/2383' MSL.

Rwy 5, Poles beginning 895' from DER, 690' right of centerline, up to 44' AGL/2354' MSL.
Trees beginning 1149' from DER, 720' right of centerline, up to 103' AGL/2563' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1: Climbing left turn to 5400 via COE R-005, then left or right turn direct COE VOR/DME, then via COE R-107 to KARPS INT to MEA for route of flight.

TAKE-OFF RUNWAY 5: Climbing left turn to 5400 via COE R-005, then left or right turn direct COE VOR/DME, then via COE R-107 to KARPS INT to MEA for route of flight or climb visual conditions to cross Coeur D'Alene-Pappy Boyington Field Airport at or above 5300 before proceeding on course.

TAKE-OFF RUNWAY 19: Climbing right turn, thence....


TAKE-OFF RUNWAY 23: Climbing left turn, thence....

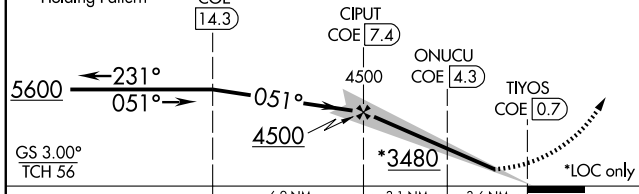
....climb on COE R-232 to 5300, then right direct COE VOR/DME, then via COE R-107 to KARPS INT to MEA for route of flight.

MALSR

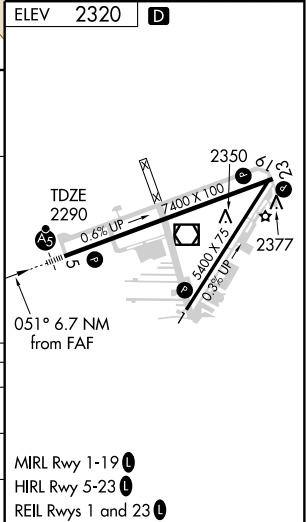
MISSED APPROACH: Climb to 2900 then climbing left turn to 6000 via COE R-350 outbound then climbing left turn to 6500 via COE R-350 inbound to COE VOR/DME and hold.

Procedure NA for arrivals at GEG VORTAC
via airway radials 006 CW 073.

Use COE DME when on the localizer course.	2900 ↑	6000 ↙	COE R-350 outbound	6500 ↘	COE R-350 inbound	COE  108.8
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CATEGORY	A	B	C	D
S-ILS 5	2490-½ 200 (200-½)			
S-LOC 5	2860-½ 570 (600-½)		2860-1 570 (600-1)	2860-1¼ 570 (600-1¼)
CIRCLING	2860-1 540 (600-1)		2880-1½ 560 (600-1½)	2880-2 560 (600-2)



NDB RWY 5

COEUR D'ALENE-PAPPY BOYINGTON FIELD (COE)

NDB LEN	APP CRS	Rwy Idg	7400
347	052°	TDZE	2290
		Apt Elev	2320

▼ When local altimeter setting not received, use Spokane
▲ Intl altimeter setting and increase all MDA 80 feet and
 S-5 and circling Cat C visibility ¼ mile.

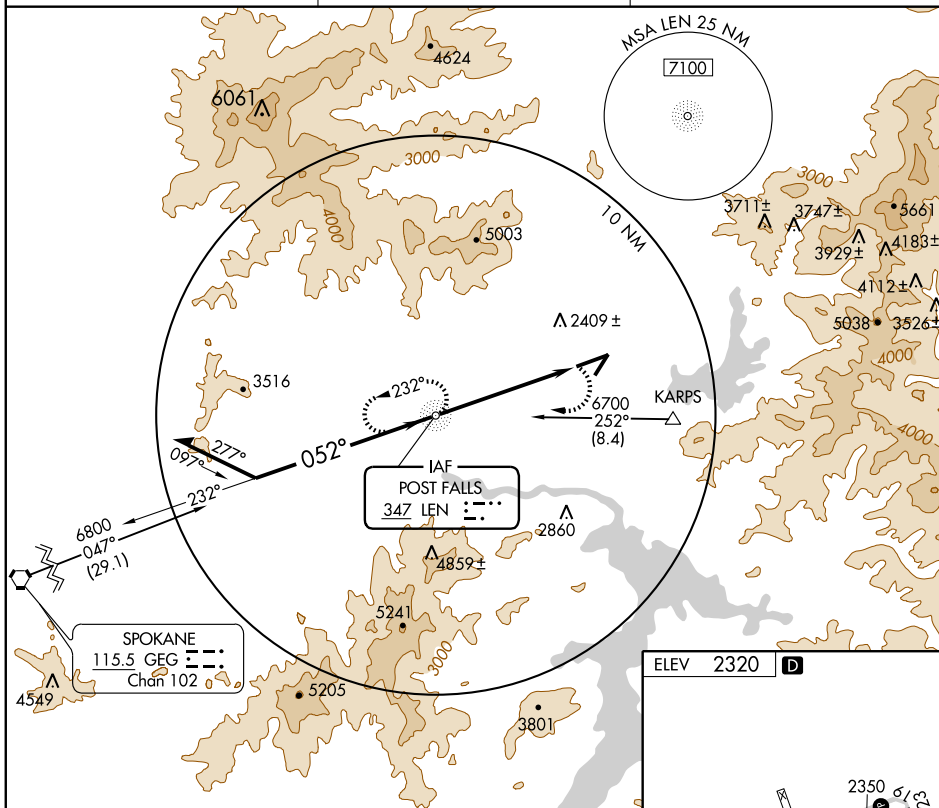


MISSED APPROACH: Climbing right turn to 6400 direct
 LEN NDB and via LEN NDB bearing 232° outbound
 then left turn direct LEN NDB and hold.

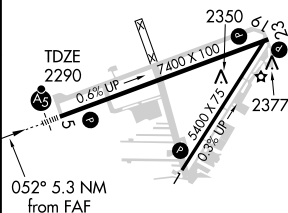
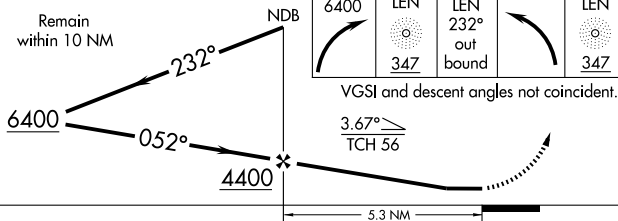
AWOS-3
135.075

SPOKANE APP CON
132.1 263.0

UNICOM
122.8 (CTAF) 0



ELEV 2320 **D**



MIRL Rwy 1-19 **0**
 HIRL Rwy 5-23 **0**
 REIL Rws 1 and 23 **0**

FAF to MAP 5.3 NM

Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46

CATEGORY	A	B	C	D
S-5	2780-¾ 490 (500-¾)	2900-¾ 610 (600-¾)	2920-1¼ 630 (600-1¼)	NA
CIRCLING	2920-1 600 (600-1)		2920-1½ 600 (600-1½)	NA

WAAS CH 70608 W05A	APP CRS 051°	Rwy Idg TDZE Apt Elev 7400 2290 2320
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RNAV (GPS) RWY 5

COEUR D'ALENE-PAPPY BOYINGTON FIELD (COE)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Spokane Intl altimeter setting and increase all DA/MDA 80 feet and all visibilities ¼ mile. Baro-VNAV and VDP NA when using Spokane Intl altimeter setting. For inoperative MALSRR when using Spokane Intl altimeter setting, increase LNAV Cats A and B visibility ¼ mile.

MALSRR



MISSED APPROACH: Climb to 7000 direct CIMAL and via 335° track to CODSA and via 269° track to DIANN and hold.

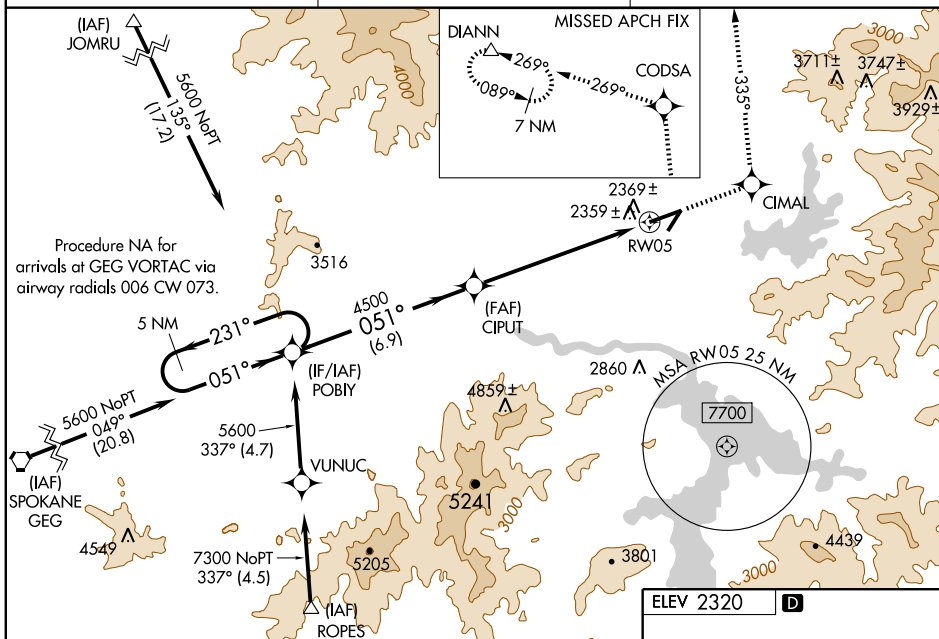
AWOS-3

135.075

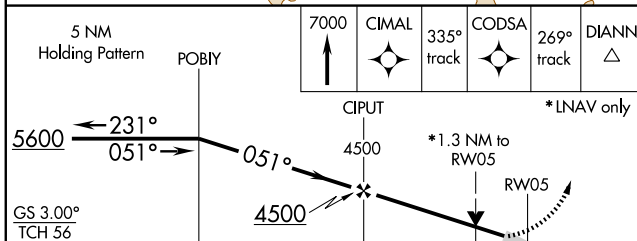
SPOKANE APP CON

132.1 263.0

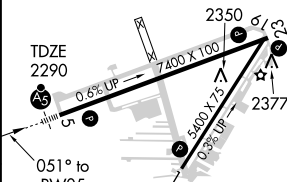
UNICOM

122.8 (CTAF)

ELEV 2320

D

*LNAV only



CATEGORY	A	B	C	D
LPV DA	2490-½ 200 (200-½)			
LNAV/VNAV DA	2653-¾ 363 (400-¾)			
LNAV MDA	2740-½ 450 (500-½)	2740-¾ 450 (500-¾)	2740-1 450 (500-1)	
CIRCLING	2740-1 420 (500-1)	2860-1 540 (600-1)	2880-1½ 560 (600-1½)	2880-2 560 (600-2)

MIRL Rwy 1-19

HIRL Rwy 5-23

REIL Rws 1 and 23

VOR/DME COE	APP CRS	Rwy Idg	5400
108.8	344°	TDZE	2311
Chan 25		Apt Elev	2320

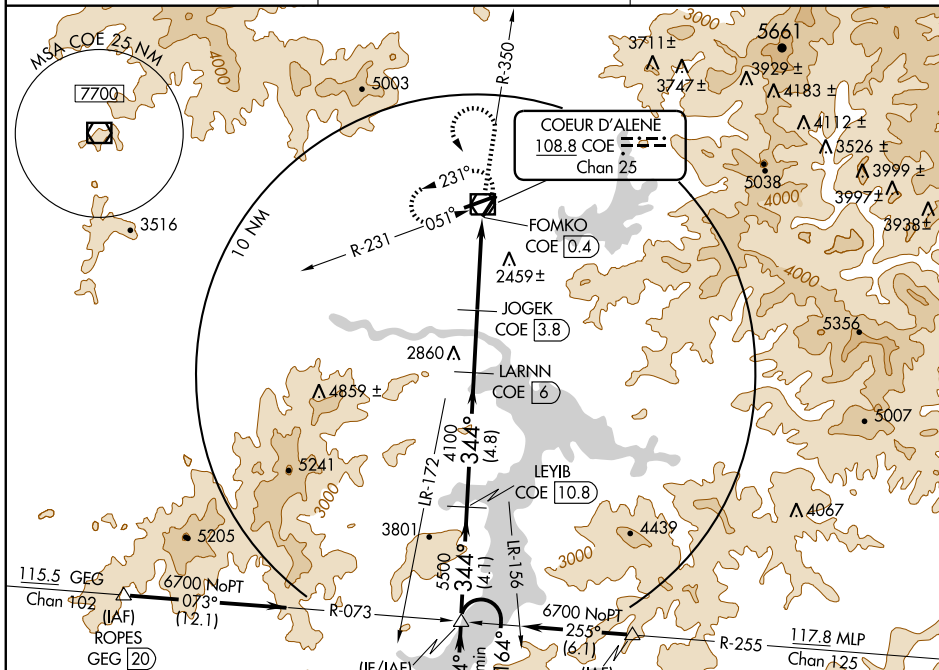
VOR/DME RWY 1

COEUR D'ALENE-PAPPY BOYINGTON FIELD (COE)

Visibility reduction by helicopters NA. When local altimeter setting not received, use Spokane Intl altimeter setting and increase all MDA 80 feet and S-1 and circling Cat C visibility ¼ mile.

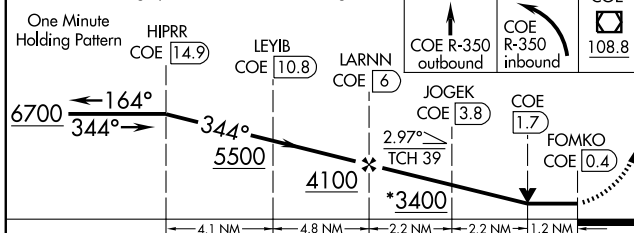
MISSED APPROACH: Climb to 6000 via COE R-350 outbound then climbing left turn to 6500 via COE R-350 inbound to COE VOR/DME and hold.

AWOS-3	SPOKANE APP CON	UNICOM
135.075	132.1 263.0	122.8 (CTAF) 0

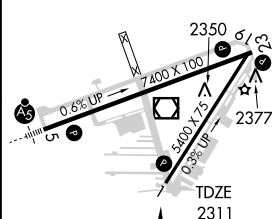


ELEV 2320	D
MIRL Rwy 1-19	1
HIRL Rwy 5-23	1
REIL Rws 1 and 23	1

*3480 when using Spokane Intl altimeter setting.



CATEGORY	A	B	C	D
S-1	2740-1	429 (500-1)	2740-1½ 429 (500-1½)	NA
CIRCLING	2740-1 420 (500-1)	2860-1 540 (600-1)	2880-1½ 560 (600-1½)	NA



344° 5.6 NM
from FAF

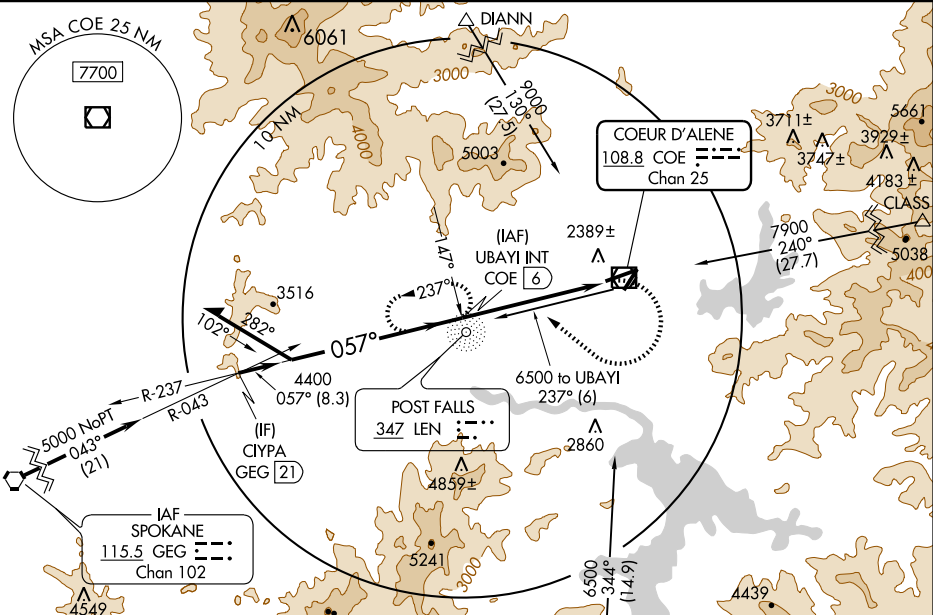
VOR/DME COE	APP CRS	Rwy Idg	7400
108.8	057°	TDZE	2290
Chan 25		Apt Elev	2320

When local altimeter setting not received, use Spokane Intl altimeter setting and increase all MDA 80 feet and circling Cat C visibility to 1 3/4 miles.
VDP NA when using Spokane Intl altimeter setting.
ADF or DME required.

MALSR

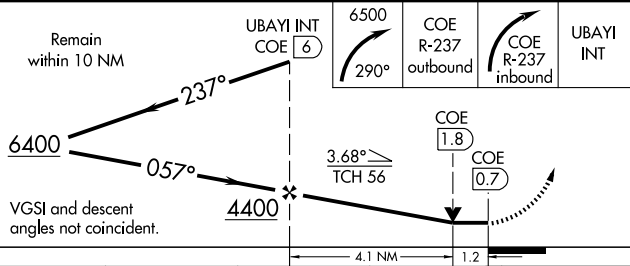
MISSED APPROACH: Climbing right turn to 6500 via heading 290° and COE R-237 outbound then right turn via COE R-237 inbound to UBAYI INT/COE 6 DME and hold.

AWOS-3	SPOKANE APP CON	UNICOM
135.075	132.1 263.0	122.8 (CTAF)



ELEV	2320
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ADF or DME REQUIRED



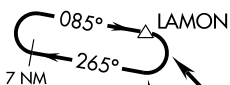
CATEGORY	A	B	C	D
S-5	2700-1/2	410 (400-1/2)	2700-3/4	NA
CIRCLING	2720-1	2860-1	2880-1/2	NA

MIRL Rwy 1-19
HIRL Rwy 5-23
REIL Rws 1 and 23

FAT to MAP 5.3 NM

Knots	60	90	120	150	180
Min:Sec	5:18	3:32	2:39	2:07	1:46

LAMON TWO DEPARTURE (RNAV) (OBSTACLE)

SALT LAKE CENTER
132.4 239.25
UNICOM 122.7 (CTAF)TAKE-OFF MINIMUMSRwy 3: Standard with minimum climb of
250' per NM to 7400.

Rwy 21: Standard.

NOTE: GPS required.

NOTE: RNAV 1

TAKE-OFF OBSTACLE NOTES

Rwy 3: Trees 1227' from DER, 343' left of centerline, 50' AGL/6266' MSL.

Trees 697' from DER, 327' right of centerline, 50' AGL/6246' MSL.

Trees 2106' from DER, 469' right of centerline, 50 AGL/6282' MSL.

Rwy 21: Building 1437' from DER, 730' left of centerline, 70' AGL/6189' MSL.

Building 52' from DER, 473' right of centerline, 50 AGL/6191' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Climb heading 033° to 6700, then climbing left turn
direct LAMON. Thence....TAKE-OFF RUNWAY 21: Climb heading 213° to 6600, then climbing right turn
direct LAMON. Thence........cross LAMON at or above MEA for direction of flight. If required, continue climb
in LAMON holding pattern to cross LAMON at or above MEA for direction of flight.

APP CRS	Rwy Idg	7302
018°	TDZE	6180
	Apt Elev	6228

RNAV (GPS) RWY 3

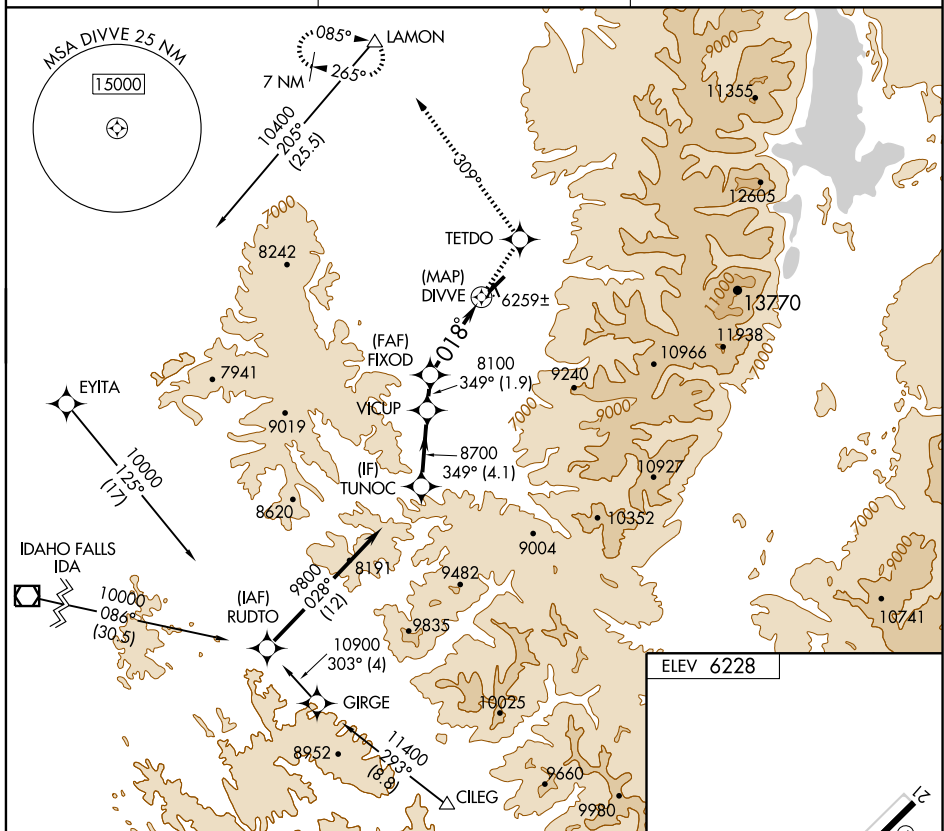
DRIGGS-REED MEMORIAL (DIJ)

T	
A NA	DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 9000 direct TETDO and via 309° track to LAMON and hold.

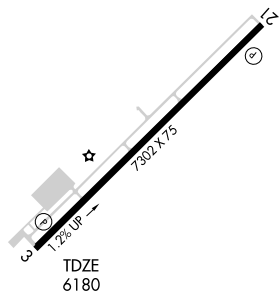
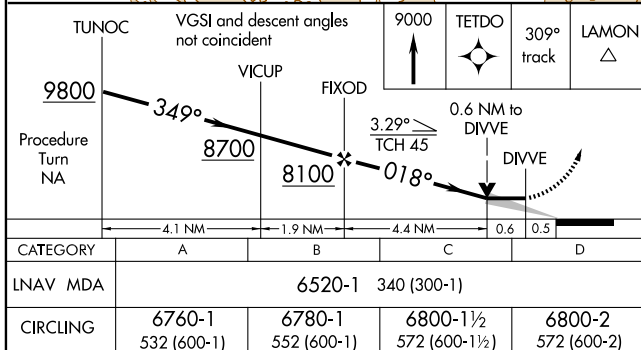
ASOS
120,775

SALT LAKE CENTER
132.4 239.25

UNICOM
122.7 (CTAF) **L**

NW-1. 03 JUN 2010 to 01 JUL 2010

ELEV 6228

MIRL Rwy 3-21 **L**

REIL Rwy 21 L

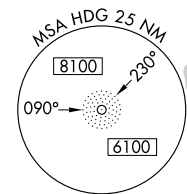
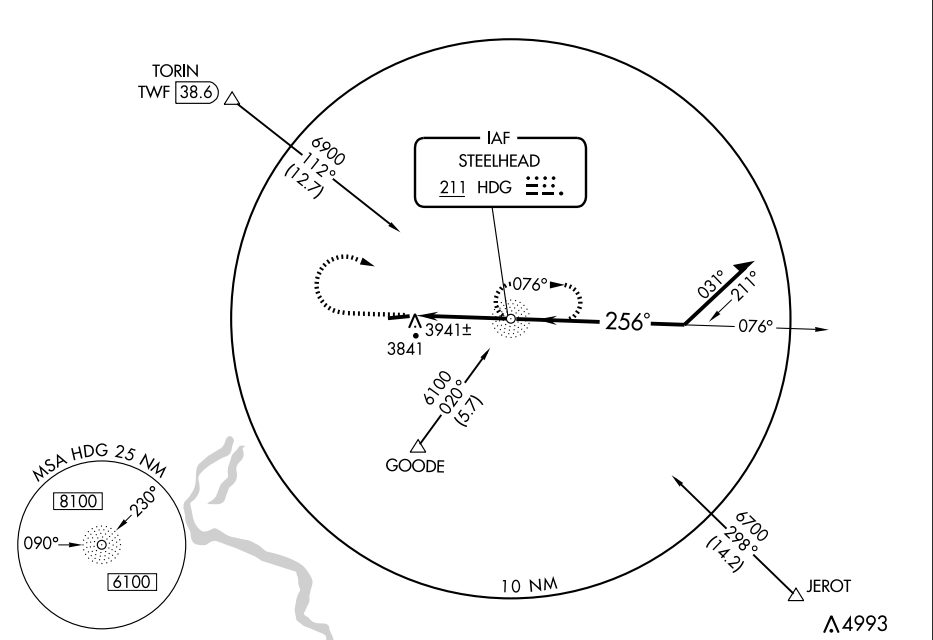
NDB HDG	APP CRS	Rwy Idg	4745
211	256°	TDZE	3732
		Apt Elev	3732

Visibility reduction by helicopters NA.

Obtain local altimeter setting on CTAF; when not received use Jerome County altimeter setting.

MISSED APPROACH: Climb to 4700 then climbing right turn to 5600 direct HDG NDB and hold.

SALT LAKE CENTER 118.05 363.0	UNICOM 122.8 (CTAF) 0*
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ELEV 3732

256° 3.6 NM from FAF

TDZE 3732

1.4% UP → 4745 X 75

3779±

3819±

MIRL Rwy 7-25 0*

FAF to MAP 3.6 NM					
Knots	60	90	120	150	180
Min:Sec	3:36	2:24	1:48	1:26	1:12

4700

5600

HDG 211

NDB

076°

256°

6100

4900

2.93° TCH 40

3.6 NM

Remain within 10 NM

CATEGORY	A	B	C	D
S-25	4260-1	528 (600-1)	4260-1½ 528 (600-1½)	4260-1¾ 528 (600-1¾)
CIRCLING	4260-1	528 (600-1)	4260-1½ 528 (600-1½)	4300-2 568 (600-2)

JEROME COUNTY ALTIMETER SETTING MINIMUMS

S-25	4340-1 608 (700-1)	4340-1¾ 608 (700-1¾)	4340-2 608 (700-2)
CIRCLING	4340-1 608 (700-1)	4340-1¾ 608 (700-1¾)	4340-2 608 (700-2)

NW-1, 03 JUN 2010 to 01 JUL 2010

WAAS CH 53709 W07A	APP CRS 068°	Rwy ldg TDZE Apt Elev	4745 3710 3732
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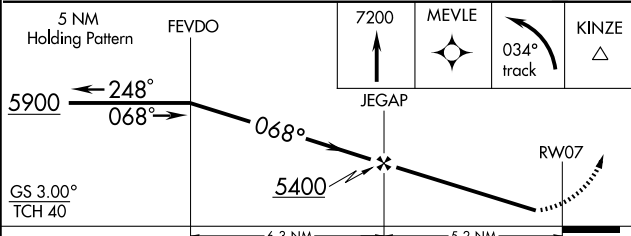
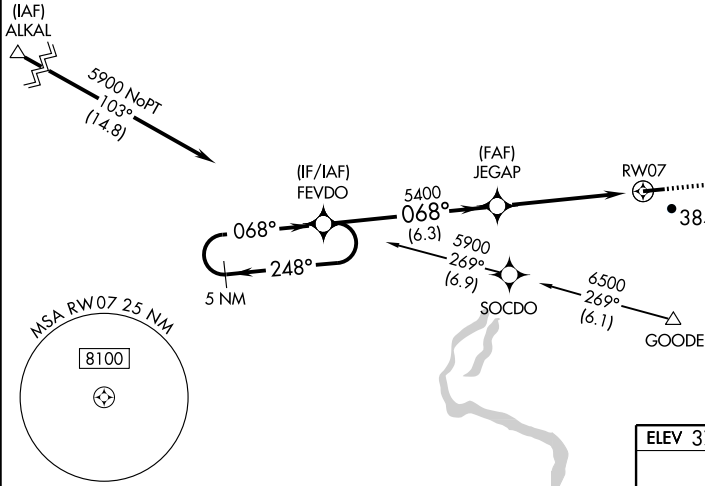
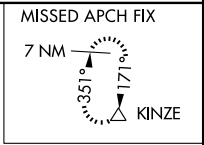
RNAV (GPS) RWY 7
GOODING MUNI (GNG)

T DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
A Baro-VNAV NA when using Jerome County altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 41°C (105°F).
Obtain local altimeter setting on CTAF; when not received, use Jerome County altimeter setting and increase all DA 86 feet and all MDA 100 feet. Increase LPV visibility ¼ mile all Cats, LNAV/VNAV visibility ½ mile all Cats, LNAV visibility Cat C and D ¼ mile, and circling visibility Cat C ¼ mile.

MISSED APPROACH: Climb to 7200 direct MEVLE and left turn via 034° track to KINZE and hold.

SALT LAKE CENTER 118.05 363.0	UNICOM 122.8 (CTAF) 0*
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Procedure NA for arrivals at GOODE via V4 eastbound and V293 southeast bound.
Procedure NA for arrivals at ALKAL via V253 northwest bound.
Procedure NA for arrivals at ALKAL via V330 southwest bound.



ELEV 3732

MIRL Rwy 7-25 0*

CATEGORY	A	B	C	D
LPV DA	3960-1 250 (300-1)			
LNAV/VNAV DA	4049-1¼ 339 (400-1¼)			
LNAV MDA	4120-1 410 (400-1)		4120-1¼ 410 (400-1¼)	
CIRCLING	4260-1 528 (600-1)		4260-1½ 528 (600-1½)	4300-2 568 (600-2)

T

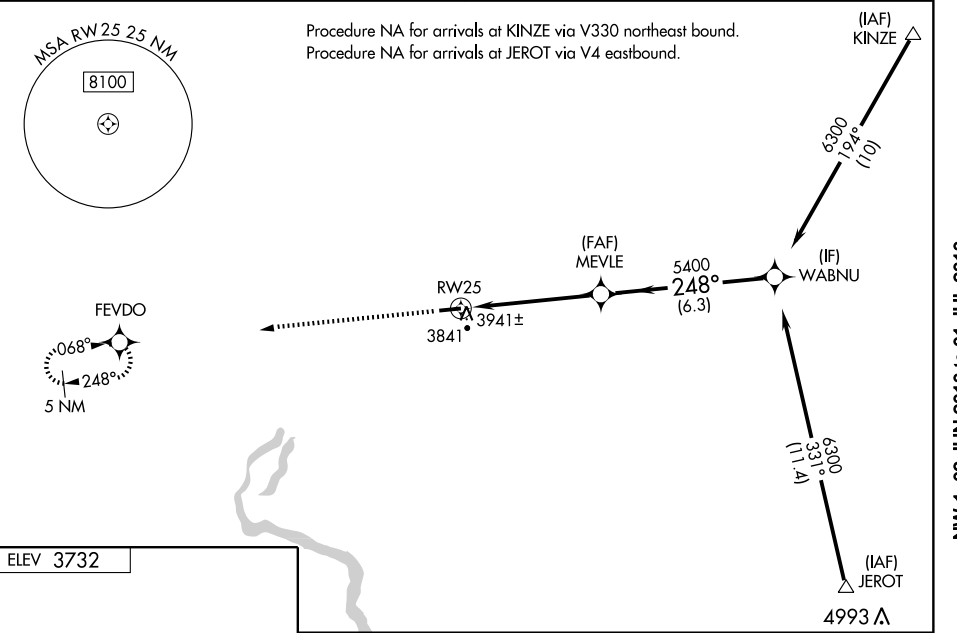
A

DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
Baro-VNAV NA when using Jerome County altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 41°C (105°F).
Obtain local altimeter setting on CTAF; when not received, use Jerome County altimeter setting and increase all DA 86 feet and all MDA 100 feet. Increase LPV visibility ¼ mile all Cats, LNAV/VNAV visibility ¼ mile all Cats, LNAV visibility Cat C and D ½ mile, and circling visibility Cat C ½ mile.

MISSED APPROACH: Climb to 5900 direct FEVDO and hold.

SALT LAKE CENTER
118.05 363.0

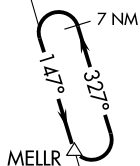
UNICOM
122.8 (CTAF) 0*



(MELLR) 08157 SL-9060 (FAA)
MELLR ONE DEPARTURE (RNAV) (OBSTACLE)

GRANGEVILLE/IDAHO COUNTY (S80)
GRANGEVILLE, IDAHO

SEATTLE CENTER
123.95 282.3



TAKE-OFF OBSTACLE NOTES

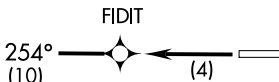
Rwy 25: Equipment 61' from DER, 161' right of centerline, 7' AGL/3291' MSL.
Vehicles on road beginning 251' from DER, 134' right of centerline, up to 15' AGL/3292' MSL.

TAKE-OFF MINIMUMS

Rwy 7: NA - Obstacles.
Rwy 25: Standard.

294°
(18)

RIDIH



NOTE: GPS Required.

NOTE: RNAV 1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 25: Climb direct FIDIT then via depicted route to MELLR.

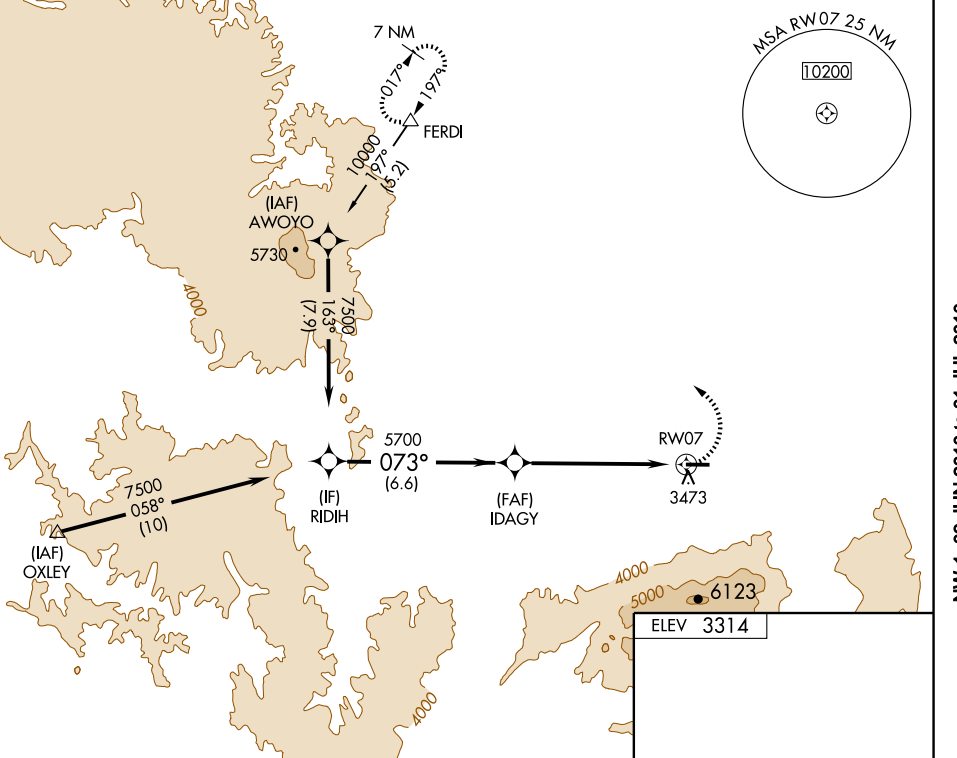
Maintain 7400 or assigned altitude. Aircraft southeast bound on V253 continue climb in MELLR holding pattern to MEA before proceeding enroute.

NA

Circling NA south of Rwy 7-25.
DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.
Use Lewiston-Nez Perce County altimeter setting; when not received,
use Pullman/Moscow Rgnl altimeter setting and increase all MDA 40 feet.

MISSED APPROACH: Climbing left turn to
7200 direct FERDI and hold.

LEWISTON-NEZ PERCE COUNTY ASOS 135.575	SEATTLE CENTER 123.95 282.3	CTAF 122.9
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RIDIH		IDAGY		7200	FERDI	TDZE 3302
7500		5700		RWY 07		5101 X 75
Procedure Turn NA		073°		3.65° TCH 45		0.5% UP
6.6 NM		6.1 NM				073° to RWY 07
CATEGORY	A	B	C	D		
LNAV MDA	4660-1¼ 1358 (1400-1¼)	4660-1½ 1358 (1400-1½)	4660-3 1358 (1400-3)	NA		
CIRCLING	4660-1¼ 1346 (1400-1¼)	4660-1½ 1346 (1400-1½)	4660-3 1346 (1400-3)	NA		
					MIRL Rwy 7-25 REIL Rwy 7	

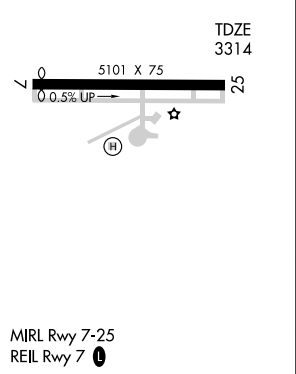
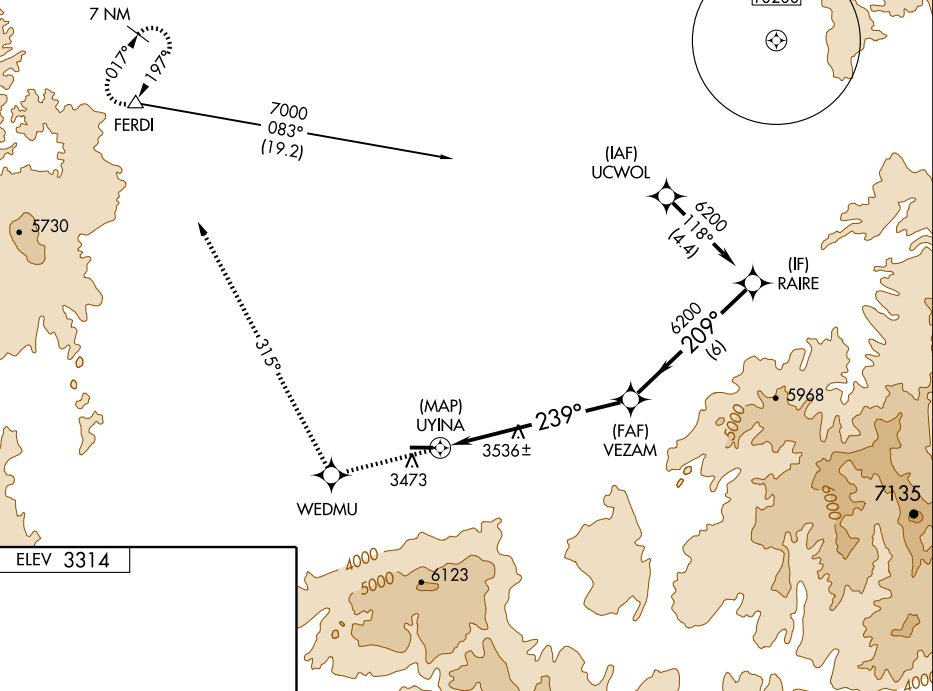
APP CRS	Rwy Idg	5101
239°	TDZE	3314
	Apt Elev	3314

NA Circling NA south of Rwy 7-25.
NA DME/DME RNP-0.3 NA.
Use Lewiston-Nez Perce County altimeter setting; when not received, use Pullman/Moscow Rgnl altimeter setting and increase all MDA 40 feet.

MISSED APPROACH: Climb to 7200 direct WEDMU and via 315° track to FERDI and hold, continue climb-in-hold to 7200.

LEWISTON-NEZ PERCE COUNTY ASOS 135.575	SEATTLE CENTER 123.95 282.3	CTAF 122.9 0
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Procedure NA for arrivals at FERDI via V520 northwest bound.

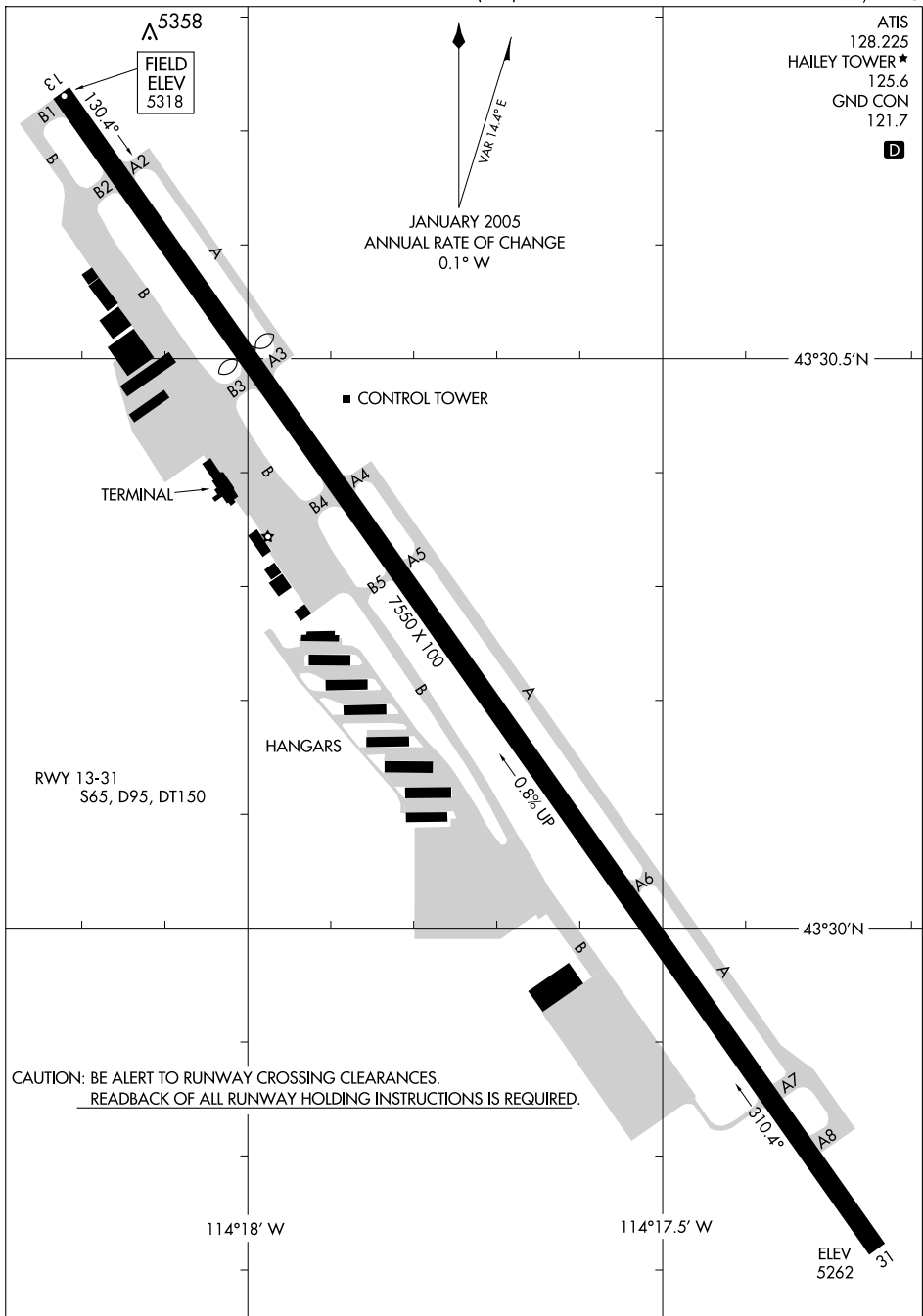


7200	WEDMU	315° track	FERDI	VEZAM	RAIRE
				209°	6200
				239°	6200
				3.69°	
				TCH 50	
				0.2	7 NM
				6 NM	
					Procedure Turn NA
CATEGORY	A	B	C	D	
LNAV MDA	4720-1¼ 1406 (1500-1¼)	4720-1½ 1406 (1500-1½)	4720-3 1406 (1500-3)	NA	
CIRCLING	4720-1¼ 1406 (1500-1¼)	4720-1½ 1406 (1500-1½)	4720-3 1406 (1500-3)	NA	

AIRPORT DIAGRAM

HAILEY / FRIEDMAN MEMORIAL (SUN)

HAILEY, IDAHO



AURELIA TWO DEPARTURE (RNAV)

TAKE-OFF OBSTACLE NOTES

Rwy 13: Multiple trees beginning 763' from DER, 3' right of centerline, up to 100' AGL/5345' MSL.

TAKE-OFF MINIMUMS

Rwy 13: Standard with minimum climb of 400' per NM to 6700.
ATC climb of 400' per NM to 7300.

Rwy 31: NA, Obstacles.

NOTE: GPS Required.

NOTE: RNAV 1.

GND CON

121.7

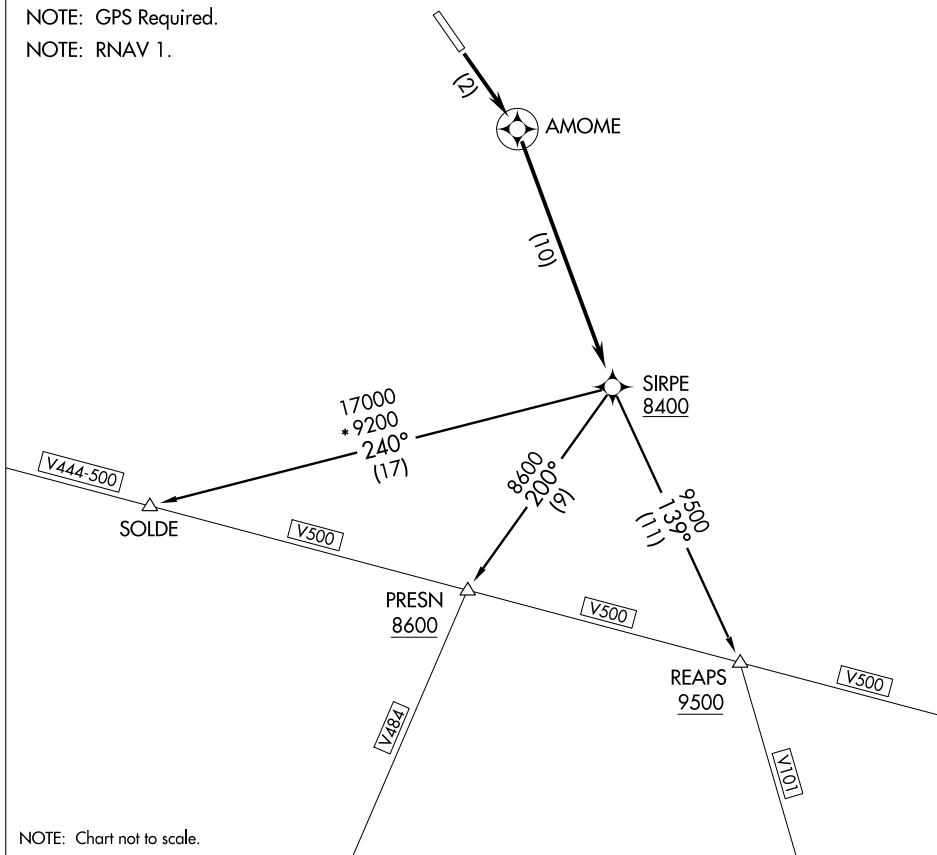
HAILEY TOWER *

125.6

SALT LAKE CENTER

118.05 353.0

UNICOM 122.95



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 13: Climb direct AMOME, then climbing right turn direct SIRPE to cross SIRPE; cross SIRPE at or above 8400, Thence....via (Transition).



PRESN TRANSITION (AUREL2.PRESN)

REAPS TRANSITION (AUREL2.REAPS)

SOLDE TRANSITION (AUREL2.SOLDE)

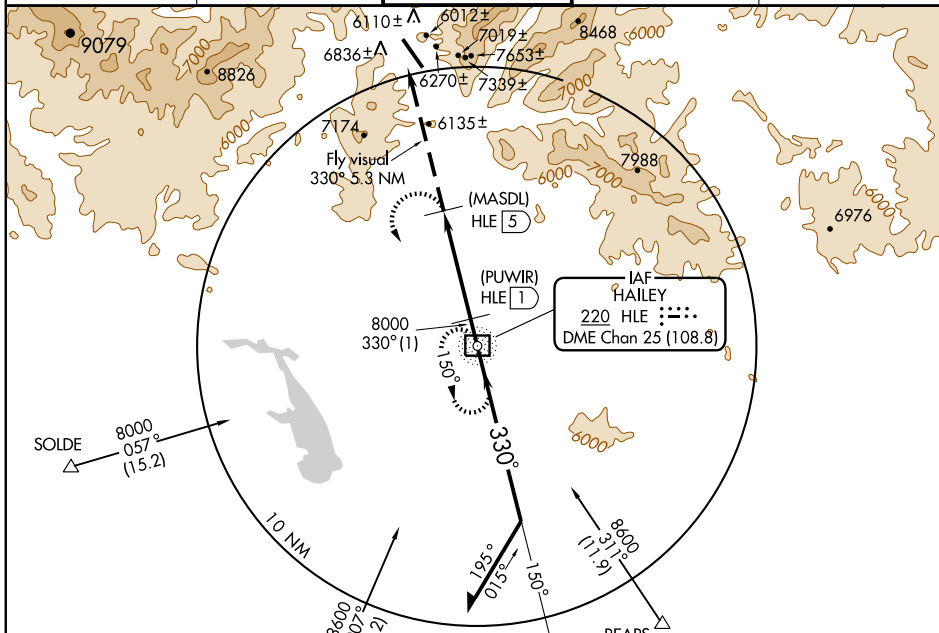
NDB/DME HLE <u>220</u> DME Chan 25	APP CRS 330°	Rwy Idg TDZE Apt Elev 5313	N/A N/A
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NDB/DME or GPS-A
HAILEY/FRIEDMAN MEMORIAL (SUN)

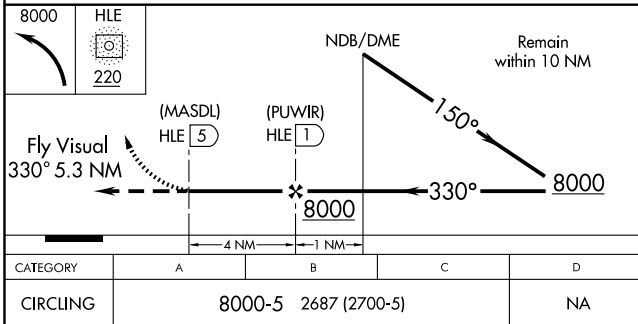
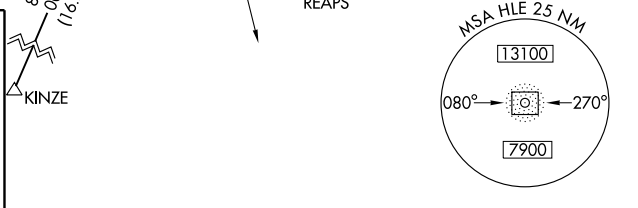
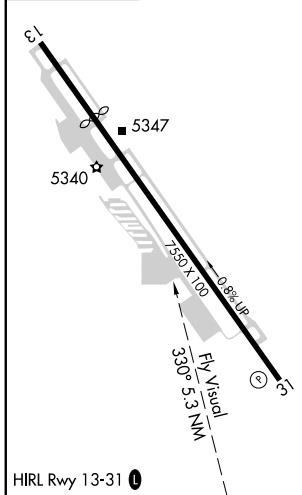
	Occasional ADF needle swings away from the final approach course are to be expected north of missed approach point.
 NA	When control tower closed, procedure not authorized. Procedure not authorized at night.

MISSED APPROACH: Left turn to 8000 direct HLE NDB/DME and hold.

ATIS 128.225	SALT LAKE CENTER 118.05 353.0	HAILEY TOWER ★ 125.6 (CTAF) 0	GND CON 121.7	UNICOM 122.95
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ELEV 5313	D
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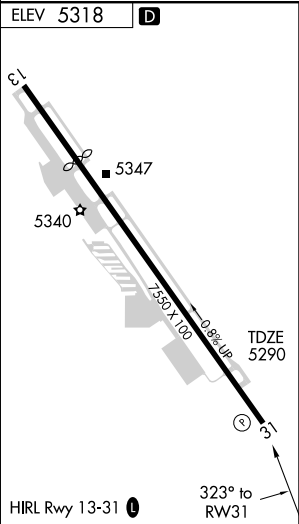
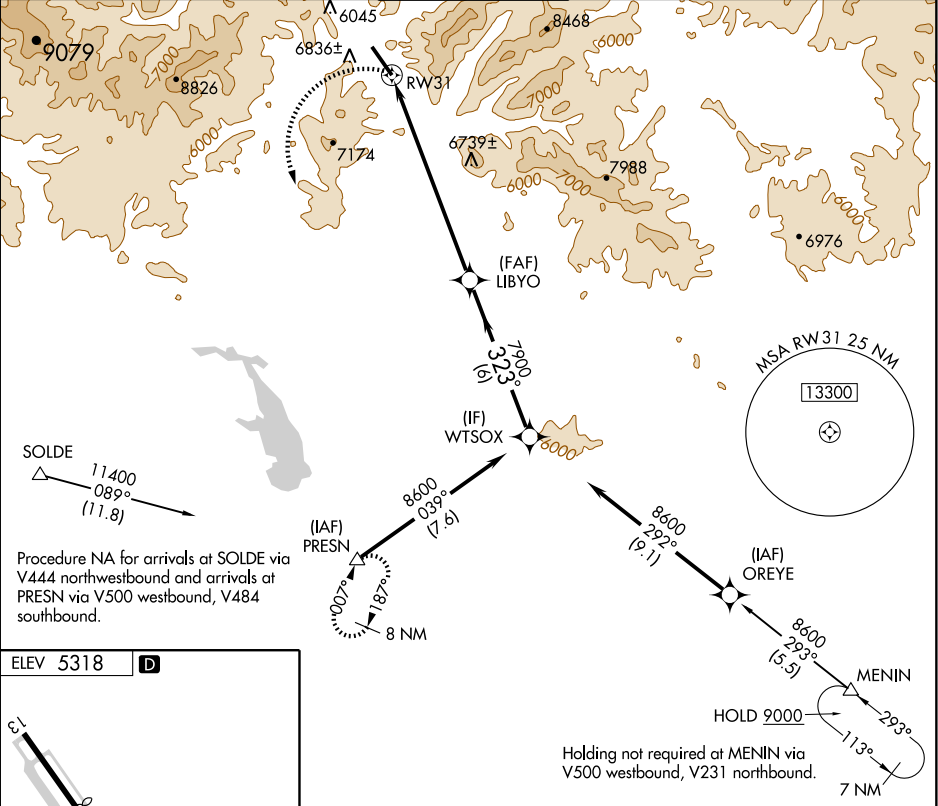
APP CRS	Rwy Idg	6631
323°	TDZE	5290
	Apt Elev	5318

RNAV (GPS) W RWY 31

HAILEY/FRIEDMAN MEMORIAL (SUN)

	Circling NA at night. Circling NA east of Rwy 13-31. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.	MISSED APPROACH: Climbing left turn to 8700 direct PRESN and hold. When authorized by ATC, climb-in-hold to 12500.
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ATIS 128.225	SALT LAKE CENTER 118.05 353.0	HAILEY TOWER★ 125.6 (CTAF) 0	GND CON 121.7	UNICOM 122.95
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8700	PRESN	VGSI and descent angles not coincident.		WTSOX
		LIBYO		8600
		7900		
		TCH 52		
		7.8 NM	6 NM	
				Procedure Turn NA
CATEGORY	A	B	C	D
LNAV MDA	7080-1¼ 1790 (1800-1¼)	7080-1½ 1790 (1800-1½)	7080-3 1790 (1800-3)	NA
CIRCLING	7180-1¼ 1862 (1900-1¼)	7180-1½ 1862 (1900-1½)	7180-3 1862 (1900-3)	NA

APP CRS	Rwy Idg	6631
314°	TDZE	5290
	Apt Elev	5318

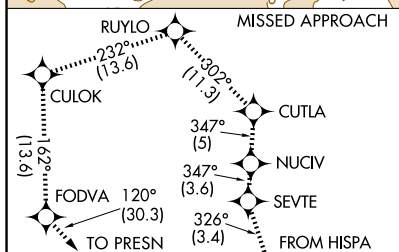
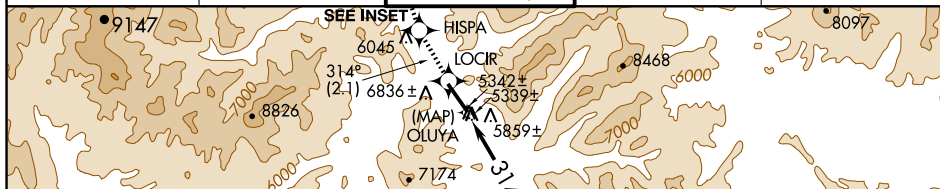
RNAV (RNP) Y RWY 31

HAILEY/FRIEDMAN MEMORIAL (SUN)

T GPS required. When VGSi inoperative, procedure NA at night.
Δ NA For uncompensated Baro-VNAV systems, procedure NA below -25°C (-14°F) or above 37°C (99°F).
 Missed approach requires RNP less than 1.0 and minimum climb of 330 feet per NM to 14500. Visibility reduction by helicopters NA.
 Final approach course offset 5.00°.

MISSED APPROACH: Climb to 15000 via 314° track to LOCIR, 314° track to HISPA, 326° track to SEVTE, 347° track to NUCIV, 347° track to CUTLA, 302° track to RUYLO, 232° track to CULOK, 162° track to FODVA, 120° track to PRESN and hold.

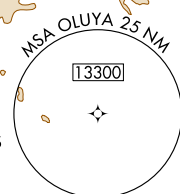
ATIS 128.225	SALT LAKE CENTER 118.05 353.0	HAILEY TOWER★ 125.6 (CTAF) 0	GND CON 121.7	UNICOM 122.95
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(RNP 0.60)
 (IAF)
 SOLDE
 17200
 SOLDE:
 Procedure NA
 V101 SW Bnd;
 V444 NW Bnd

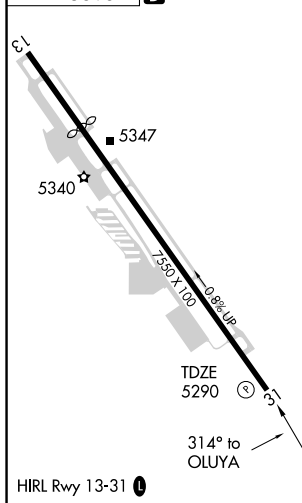
(RNP 0.60)
 (IAF)
 PRESN
 11700
 11400
 Max 230 KIAS

(IF)
 WTSOX
 8500
 Max 200 KIAS



MENIN:
 Procedure NA
 V500 E Bnd;
 V231 S Bnd
 (RNP 0.60)
 (IAF)
 MENIN
 T2500

ELEV 5318



15000	LOCIR	HISPA	SEVTE	NUCIV	CUTLA	RUYLO	CULOK	FODVA	PRESN
	314° track	314° track	326° track	347° track	347° track	302° track	232° track	162° track	120° track

Procedure				Turn NA	
OLUYA				8500	
JESEP				8000	
HEVAG				GP 3.50°	
WTSOX				TCH 58	
CATEGORY				NA	
RNP 0.30 DA				NA	

**SPECIAL AIRCRAFT & AIRCREW
 AUTHORIZATION REQUIRED**

AIRPORT DIAGRAM

AL-590 (FAA)

IDAHO FALLS RGNL (IDA)
IDAHO FALLS, IDAHO

ATIS
135.325
IDAHO FALLS TOWER ★
118.5 257.8
GND CON
121.7
CLINC DEL
121.7

VAR 13.6°E
JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

43°31'N

FIELD
ELEV
4744

9002 X 150

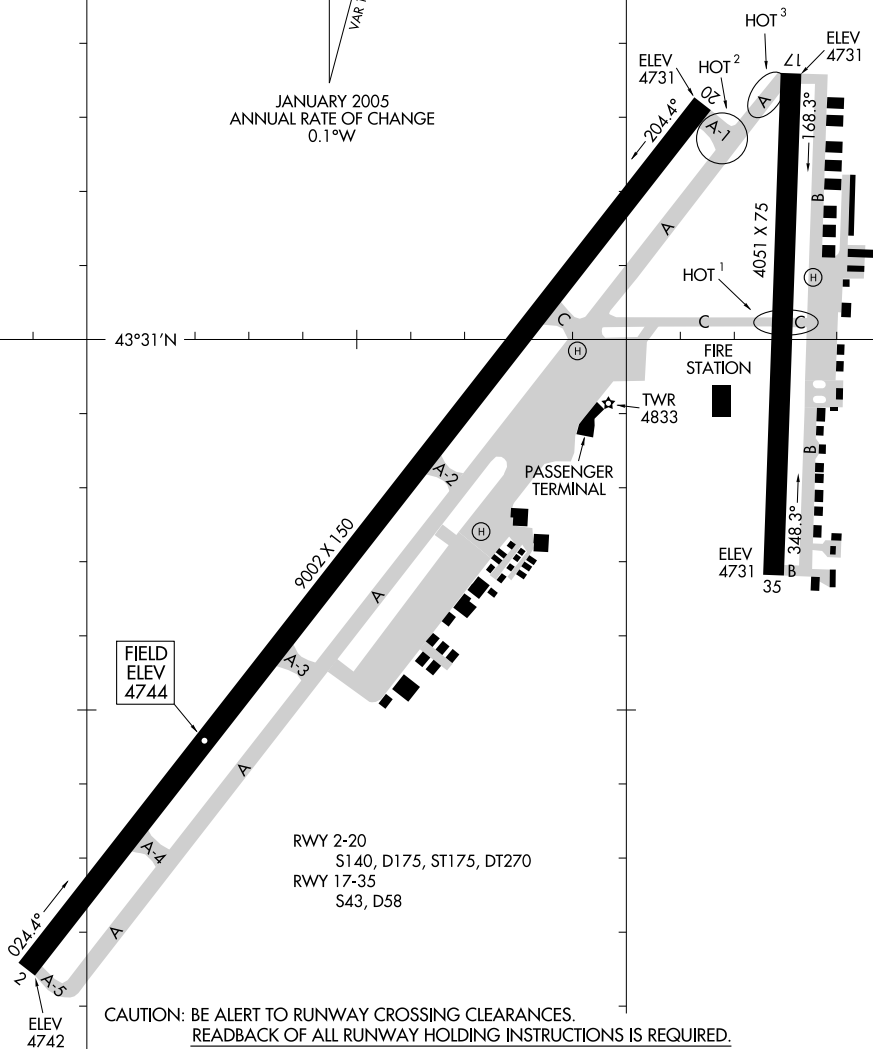
RWY 2-20
S140, D175, ST175, DT270
RWY 17-35
S43, D58

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

43°30'N

112°05'W

112°04'W



NW-1, 03 JUN 2010 to 01 JUL 2010

LOC/DME HDA	APP CRS	Rwy Idg	9002
111.1	203°	TDZE	4735
Chan 48		Apt Elev	4744

Visibility CAT A/B/C/D, RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALS

AS

MISSED APPROACH: Climb to 7000, then right turn direct IDA VOR/DME and hold.

ATIS	SALT LAKE CENTER	IDAHO FALLS TOWER★	GND CON	CLNC DEL	UNICOM
135.325	128.35 239.25	118.5 (CTAF) 0 257.8	121.7	121.7	122.95

Diagram illustrating the 203° approach to IDAHO FALLS (IDA) and surrounding navigation aids. Key features include:

- Approach Path:** 203° heading, 10 NM radius, 7000 MSL (022° (6)).
- Navigation Aids:** IAF DUBOIS 116.9 DBS (Chan 116), LOCALIZER 111.1 (Chan 48), IDAHO FALLS 113.85 IDA (Chan 85 (Y)).
- Obstacles:** 4892, 4910±, 5034, 5062, 5812±, 6282, 6635±.
- Other Aids:** JEENY INT HDA 14.1, LOM/IAF UCONN 324 ID, I-IDA 7.5.
- MSA ID 25 NM:** 140°, 1010, 10200, 6700.
- TERRE:** 7300, 102° (17.7).

Inset chart showing the 203° approach to IDAHO FALLS (IDA) with distance markers:

- 5.8 NM:** I-IDA 1.7, 6670, 6700.
- 15 NM:** LOM I-IDA 7.5, 6700, 6700, 6700.
- Remain within 15 NM:** 6700, 6700, 6700.
- GS 3.00° TCH 49:** 6700, 6700, 6700.

Inset chart showing the 203° approach to IDAHO FALLS (IDA) with distance markers:

- 5.8 NM:** 203° 5.8 NM from FAF, 4762±, 4761±, 4741, 4887.
- 15 NM:** 4762±, 4761±, 4741, 4887.
- Other Aids:** TDZE 4735, TWR 4833, 9002 X 150, 4031 X, 35.

CATEGORY	A	B	C	D	E
S-ILS 20	*4935/24 200 (200-½)				
S-LOC 20	5140/24 405 (400-½)	5140/40 405 (400-¾)	5140/50 405 (400-1)		
CIRCLING	5200-1 456 (500-1)	5220-1 476 (500-1)	5260-1½ 516 (600-1½)	5340-2 596 (600-2)	5420-2½ 676 (700-2½)

REIL Rwy 2

HIRL Rwy 2-20

MIRL Rwy 17-35

FAF to MAP 5.8 NM	Knots	60	90	120	150	180
Min:Sec	5:48	3:52	2:54	2:19	1:56	

NW-1, 03 JUN 2010 to 01 JUL 2010

ATIS
135.325

SALT LAKE CENTER
128.35 239.25

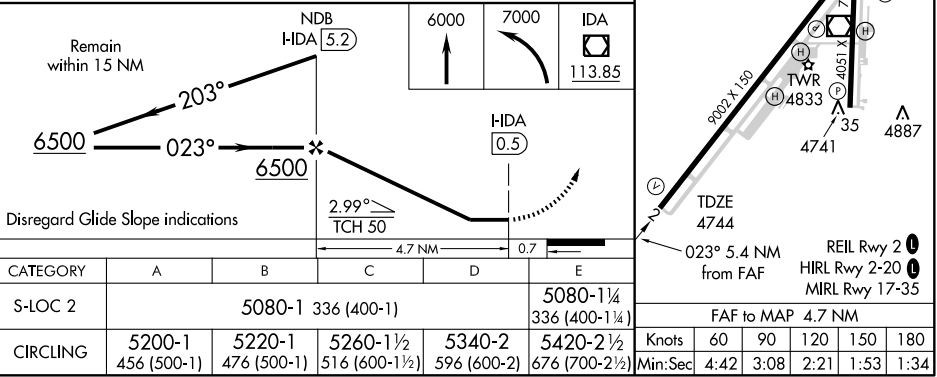
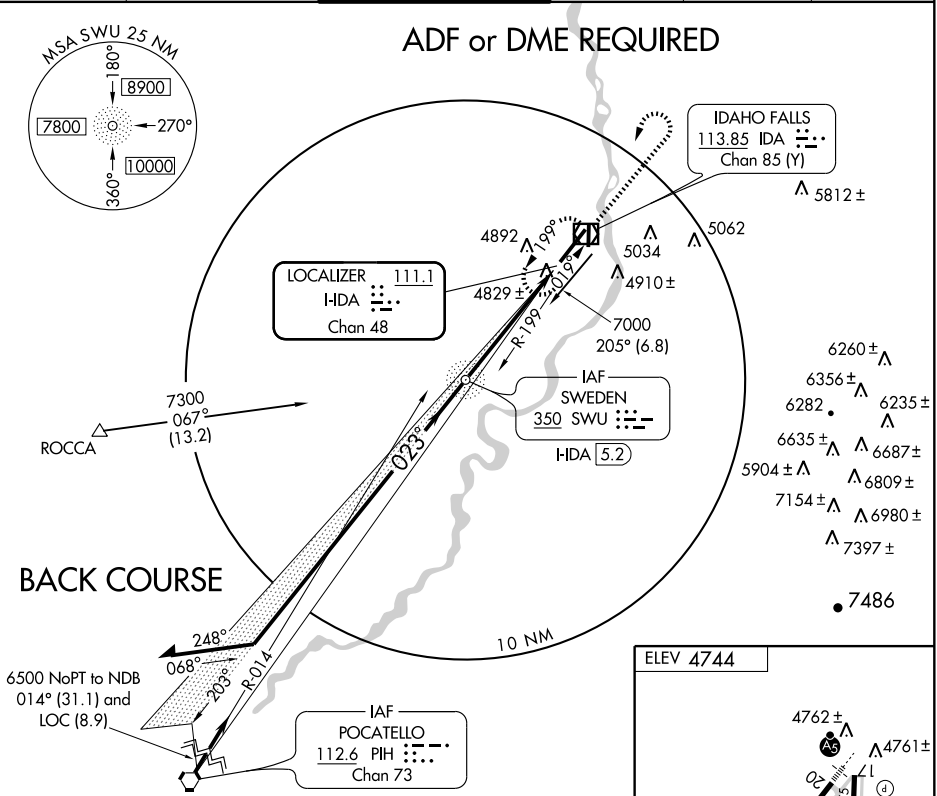
IDAHO FALLS TOWER★
118.5 (CTAF) 257.8

GND CON
121.7

CLNC DEL
121.7

UNICOM
122.95

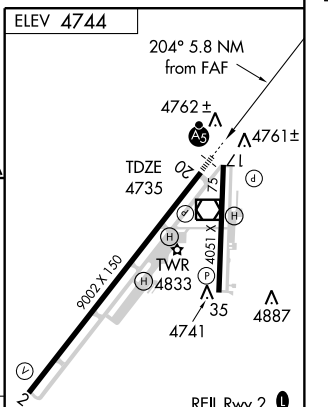
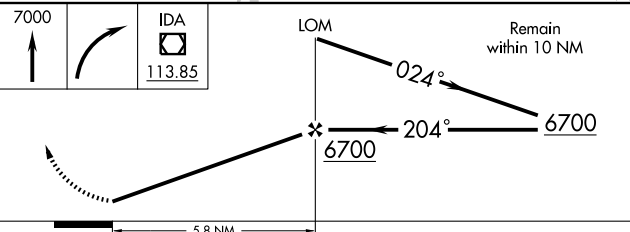
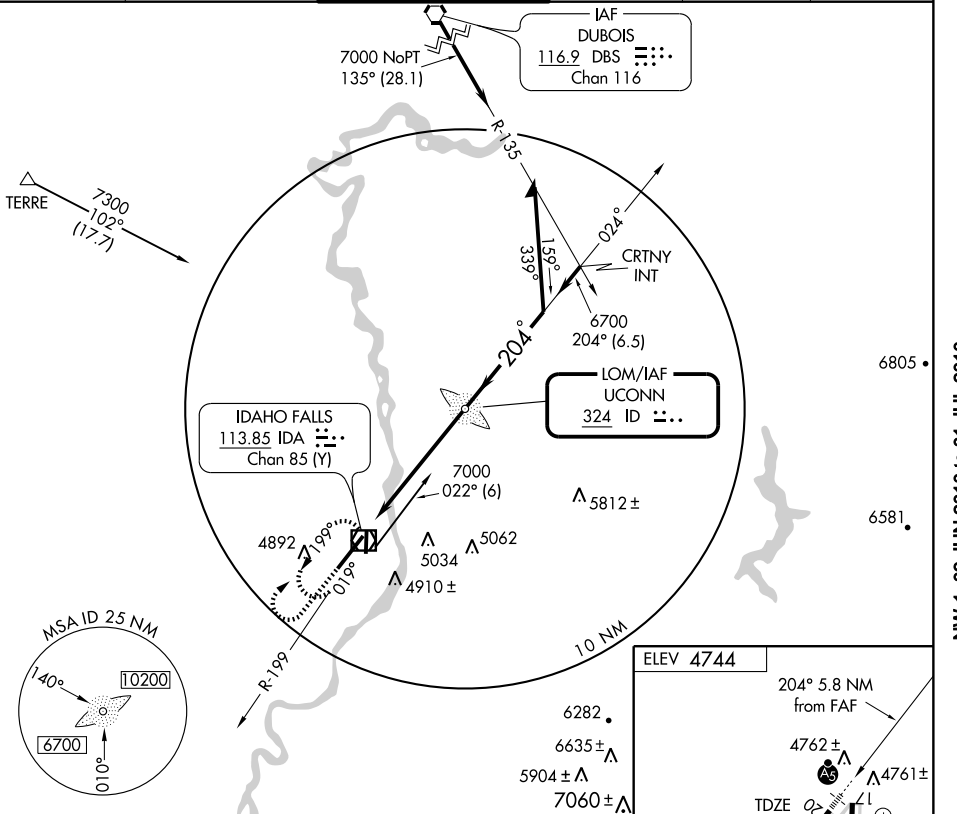
MISSED APPROACH: Climb to 6000 then climbing left turn to 7000 direct IDA VOR/DME and hold.



MALSR

MISSED APPROACH: Climb to 7000 then right turn direct IDA VOR/DME and hold.

ATIS 135.325	SALT LAKE CENTER 128.35 239.25	IDAHO FALLS TOWER★ 118.5 (CTAF) 0 257.8	GND CON 121.7	CLNC DEL 121.7	UNICOM 122.95
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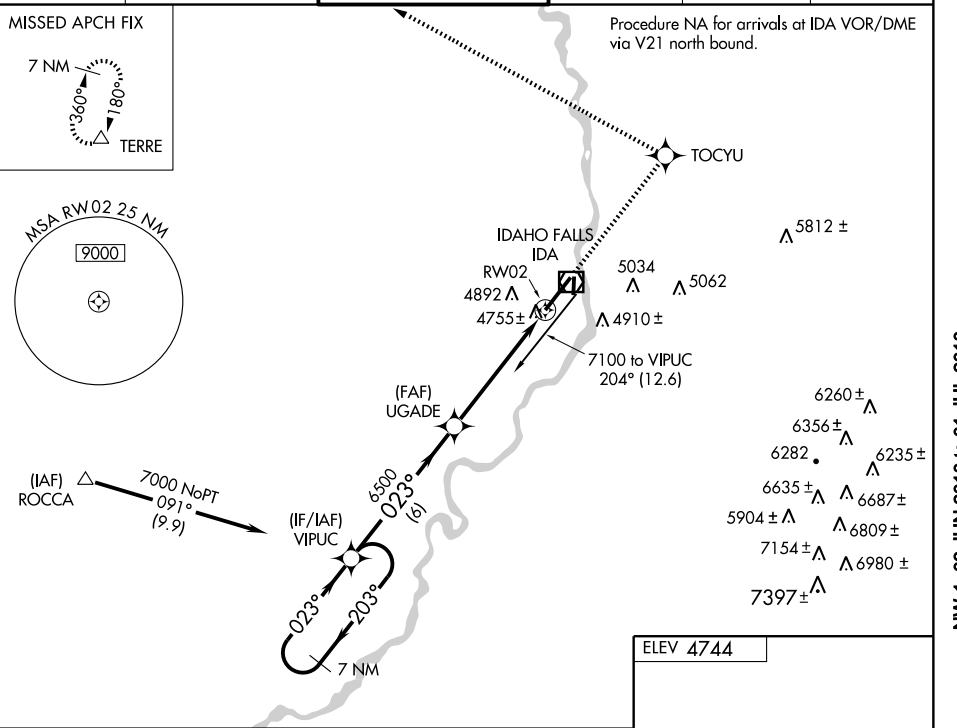
CATEGORY	A	B	C	D	FAF to MAP 5.8 NM					
S-20	5220/40 485 (500-¾)			5220/60 485 (500-1¼)						
CIRCLING	5220-1 476 (500-1)		5260-1½ 516 (600-1½)	5340-2 596 (600-2)	Knots	60	90	120	150	180
					Min:Sec	5:48	3:52	2:54	2:19	1:56

NW-1, 03 JUN 2010 to 01 JUL 2010

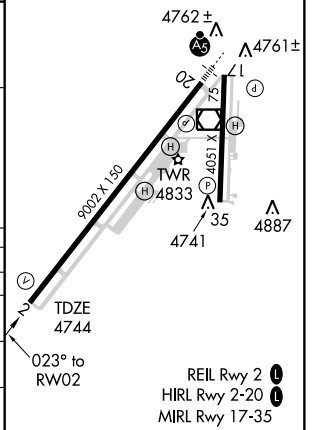
DME/DME RNP-0.3 NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -24°C (-11°F) or above 39°C (103°F).
When VGSI inoperative, circling Rwy 35 NA at night.

MISSED APPROACH: Climb to 7500 direct TOCYU and left turn via 284° track to TERRE and hold.

ATIS 135.325	SALT LAKE CENTER 128.35 239.25	IDAHO FALLS TOWER★ 118.5 (CTAF) 0 257.8	GND CON 121.7	CLNC DEL 121.7	UNICOM 122.95
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7 NM Holding Pattern		VIPUC	7500	TOCYU	TERRE
7000		UGADE	7500	284° track	△
GS 3.00° TCH 50		*1 NM to RW02	*LNAV only		
203°		6500	RW02		
023°		6 NM	4.3 NM	1 NM	
CATEGORY	A	B	C	D	
LPV DA	4994-3/4		250 (300-3/4)		
LNAV/VNAV DA	5135-1 1/4		391 (400-1 1/4)		
LNAV MDA	5100-1		356 (400-1)		
CIRCLING	5200-1	5220-1	5260-1 1/2	5340-2	
	456 (500-1)	476 (500-1)	516 (600-1 1/2)	596 (600-2)	



NW-1. 03 JUN 2010 to 01 JUL 2010

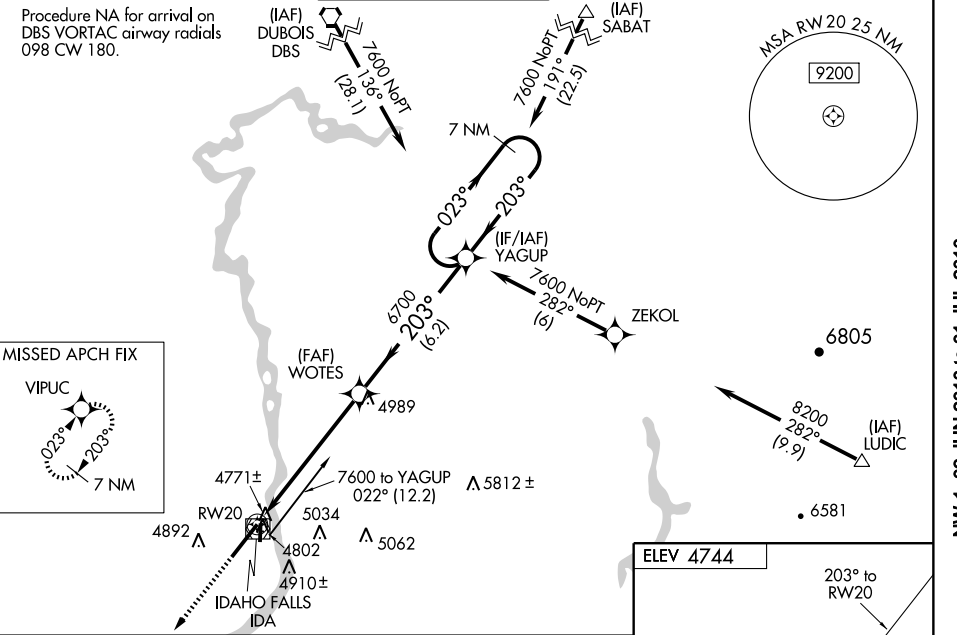
T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -24°C (-11°F) or above 39°C (102°F). DME/DME RNP-0.3 NA.

A VDP and Baro-VNAV NA when using Rexburg-Madison County altimeter setting. When local altimeter setting not received, use Rexburg-Madison County altimeter setting and increase all DA 68 feet and all MDA 80 feet and increase LNAV/VNAV visibility all Cats ¼ mile. When VGSI inoperative, circling Rwy 35 NA at night. For inoperative MALSR increase visibility LNAV Cat D to 1¼ mile. For inoperative MALSR when using Rexburg-Madison County altimeter setting increase LPV visibility all Cats to 1 mile.

MALSR

MISSED APPROACH: Climb to 7000 direct VIPUC and hold.

ATIS 135.325	SALT LAKE CENTER 128.35 239.25	IDAHO FALLS TOWER★ 118.5 (CTAF) 0 257.8	GND CON 121.7	CLNC DEL 121.7	UNICOM 122.95
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7000

VIPUC

*LNAV only

*1.1 NM to RW20

RW20

WOTES

YAGUP

7 NM Holding Pattern

023°

203°

7600

6700

GS 3.00° TCH 49

1.1

4.8 NM

6.2 NM

CATEGORY	A	B	C	D
LPV DA	4985/24		250 (300-½)	
LNAV/VNAV DA	5092/40		357 (400-¾)	
LNAV MDA	5140/24 405 (400-½)		5140/40 405 (400-¾)	5140/50 405 (400-1)
CIRCLING	5200-1 456 (500-1)	5220-1 476 (500-1)	5260-1½ 516 (600-1½)	5340-2 596 (600-2)

ELEV 4744

203° to RW20

4762±

TDZE 4735

75

4761±

4051±

TWR 4833

35

4741

4887

9002 X 150

REIL Rwy 2 1

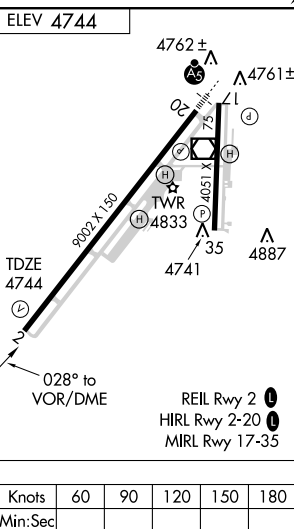
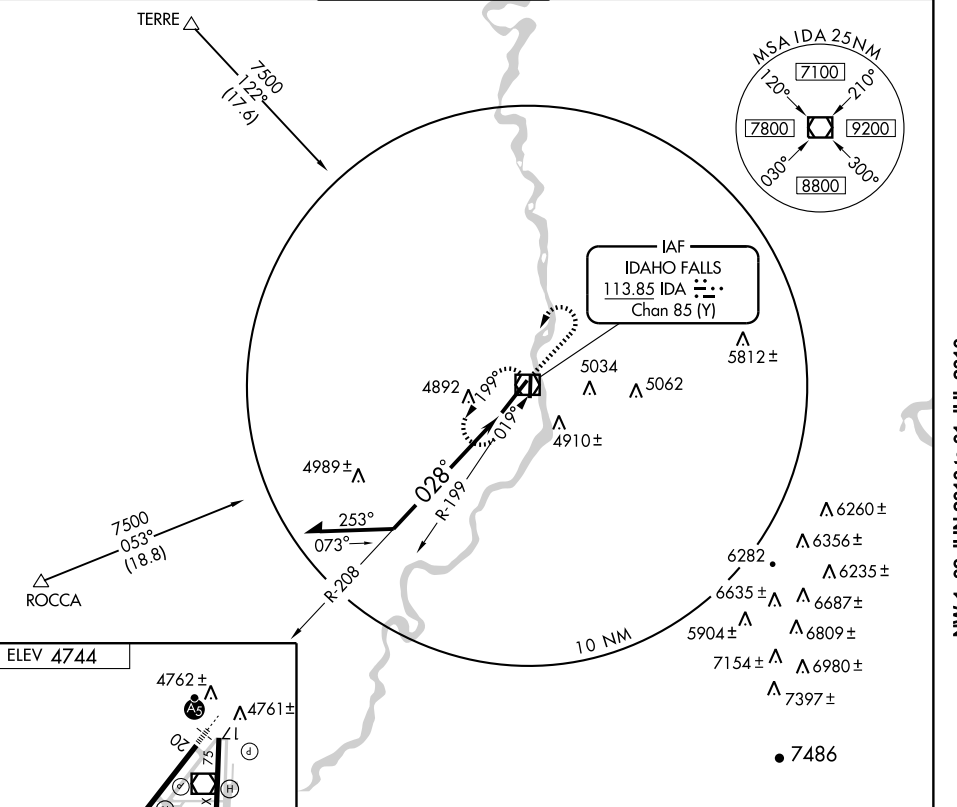
HIRL Rwy 2-20 1

MIRL Rwy 17-35

NW-1, 03 JUN 2010 to 01 JUL 2010

MISSED APPROACH: Climb to 6000 then climbing left turn to 7000 direct IDA VOR/DME and hold.

ATIS 135.325	SALT LAKE CENTER 128.35 239.25	IDAHO FALLS TOWER★ 118.5 (CTAF) 0 257.8	GND CON 121.7	CLNC DEL 121.7	UNICOM 122.95
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Remain within 10 NM		VOR/DME	6000	7000	IDA 113.85
6500		208°	↑	↶	
		028°			
CATEGORY	A	B	C	D	
S-2	5300-1	556 (600-1)	5300-1½ 556 (600-1½)	5300-1¾ 556 (600-1¾)	
CIRCLING	5300-1	556 (600-1)	5300-1½ 556 (600-1½)	5340-2 596 (600-2)	

NW-1. 03 JUN 2010 to 01 JUL 2010

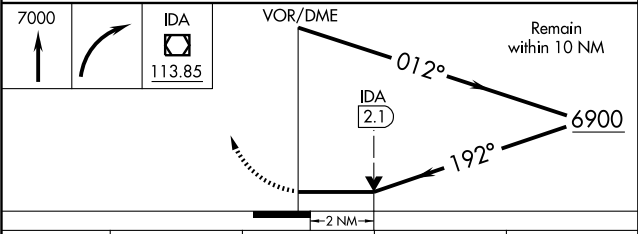
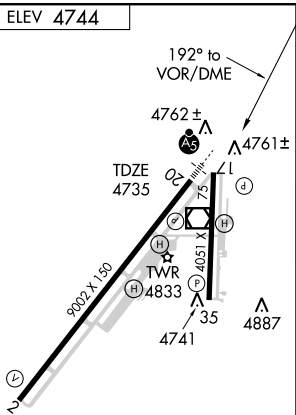
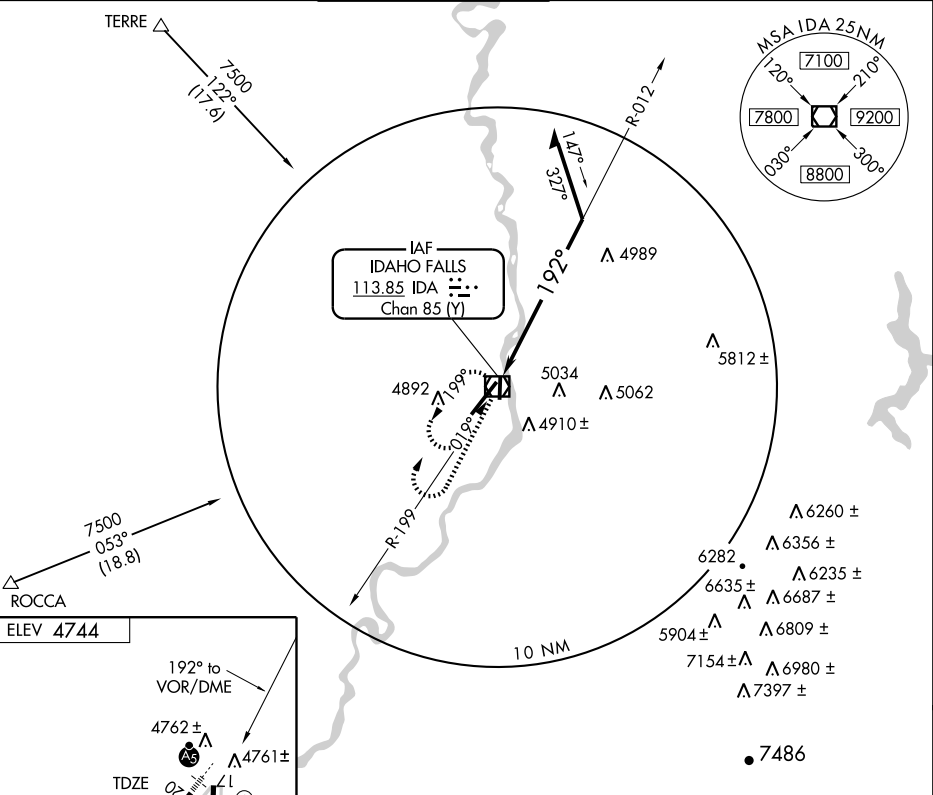
VOR/DME IDA	APP CRS	Rwy Idg	9002
113.85	192°	TDZE	4735
Chan 85 (Y)		Apt Elev	4744

When local altimeter setting not received, use Rexburg-Madison County altimeter setting and increase all MDA 80 feet and increase all Cat B visibilities ¼ mile and increase all Cat C and D visibilities ½ mile. When VGSI inoperative, circling Rwy 35 NA at night. VDP NA when using Rexburg-Madison County altimeter setting.

MALSR

MISSED APPROACH: Climb to 7000 then right turn direct IDA VOR/DME and hold.

ATIS	SALT LAKE CENTER	IDAHO FALLS TOWER★	GND CON	CLNC DEL	UNICOM
135.325	128.35 239.25	118.5 (CTAF) 0 257.8	121.7	121.7	122.95



CATEGORY	A	B	C	D
S-20	5400/24 665 (700-½)		5400/60 665 (700-1¼)	5400-1½ 665 (700-1½)
CIRCLING	5400-1 656 (700-1)		5400-1¾ 656 (700-1¾)	5400-2 656 (700-2)

REIL Rwy 2 0
HIRL Rwy 2-20 0
MIRL Rwy 17-35

NW-1. 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	5001
086°	TDZE	4019
	Apt Elev	4053

RNAV (GPS) RWY 9

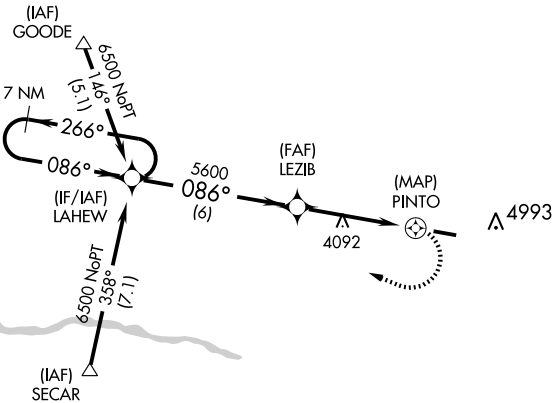
JEROME COUNTY (JER)

⚠ Circling NA north of Rwy 9-27. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Twin Falls altimeter setting and increase all MDA 60 feet, and increase LNAV Cat. D visibility ¼ mile.

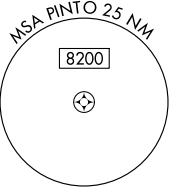
MISSED APPROACH:
Climbing right turn to 6500
direct LAHEW and hold.

ASOS 135.225	TWIN FALLS APP CON ★ 126.7 353.75	SALT LAKE CENTER 118.05 363.0	UNICOM 122.8 (CTAF) 1
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Procedure NA for arrivals at GOODE via V4 northwest bound and V293 northwest bound.

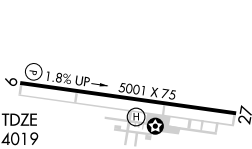


Procedure NA for arrivals at SECAR via V253 southeast bound.



ELEV 4053

7 NM Holding Pattern LAHEW				
CATEGORY	A		B	
LNAV MDA	4420-1		401 (400-1)	
CIRCLING	4480-1 427 (500-1)		4560-1 507 (600-1)	
	4420-1¼		401 (400-1¼)	
	4560-1½		507 (600-1½)	
	4620-2		567 (600-2)	



MRL Rwy 9-27 **1**

RNAV (GPS) RWY 27
JEROME COUNTY (JER)

MISSED APPROACH:
Climb to 6500 direct
LAHEW and hold.

UNICOM
122.8 (CTAF) **L**

LAHEW

8400

ELEV 4053

Procedure NA for arrivals at DRYAD
via V484 southeast bound.

Procedure NA for arrivals at BYI
VOR/DME via V4 eastbound
and V101 southeast bound.

6500	LAHEW
------	-------

TDZE
4053

266° to
RW27

RW2

CITCO

FANCO

Procedure
Turn
NA

CATEGORY

A

1

D

LPV DA

4434-1 $\frac{1}{4}$ 381 (400-1 $\frac{1}{4}$)

LNAV MDA

5300-1 1/2
1247 (1300-1

5300-3 1247 (1300-3)

CIRCLING

5300-1 1/2
1247 (1300-1)

5300-3 1247 (1300-3)

MIRL Rwy 9-27 **L**

VORTAC TWF 115.8 Chan 105	APP CRS 346°	Rwy Idg TDZE Apt Elev N/A N/A 4053
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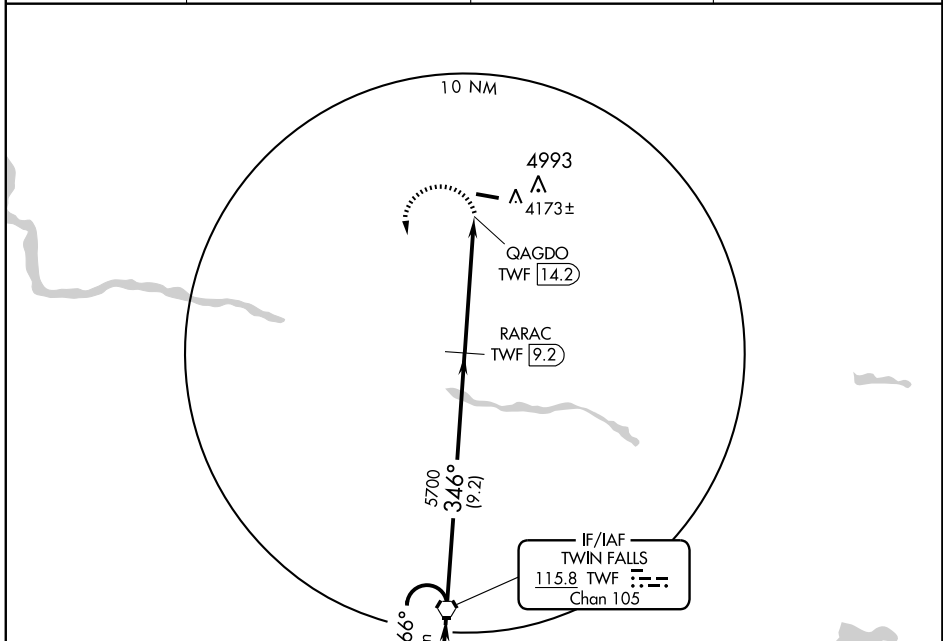
VOR/DME-A

JEROME COUNTY (JER)

⚠ Circling NA north of Rwy 9-27. When local altimeter setting not received, use Twin Falls altimeter setting and increase all MDA 60 feet.

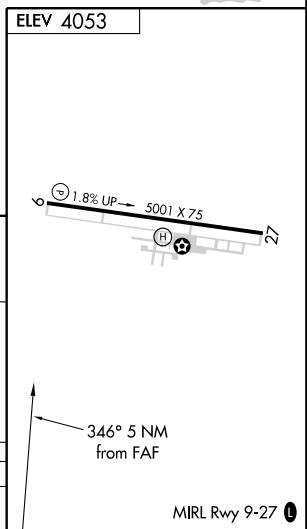
MISSED APPROACH: Climbing left turn to 8000 direct TWF VORTAC and hold, continue climb-in-hold to 8000.

ASOS 135.225	TWIN FALLS APP CON ★ 126.7 353.75	SALT LAKE CENTER 118.05 363.0	UNICOM 122.8 (CTAF) ①
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NoPT for arrival on TWF VORTAC via V142 westbound and V269 southwest bound and V293 northbound.

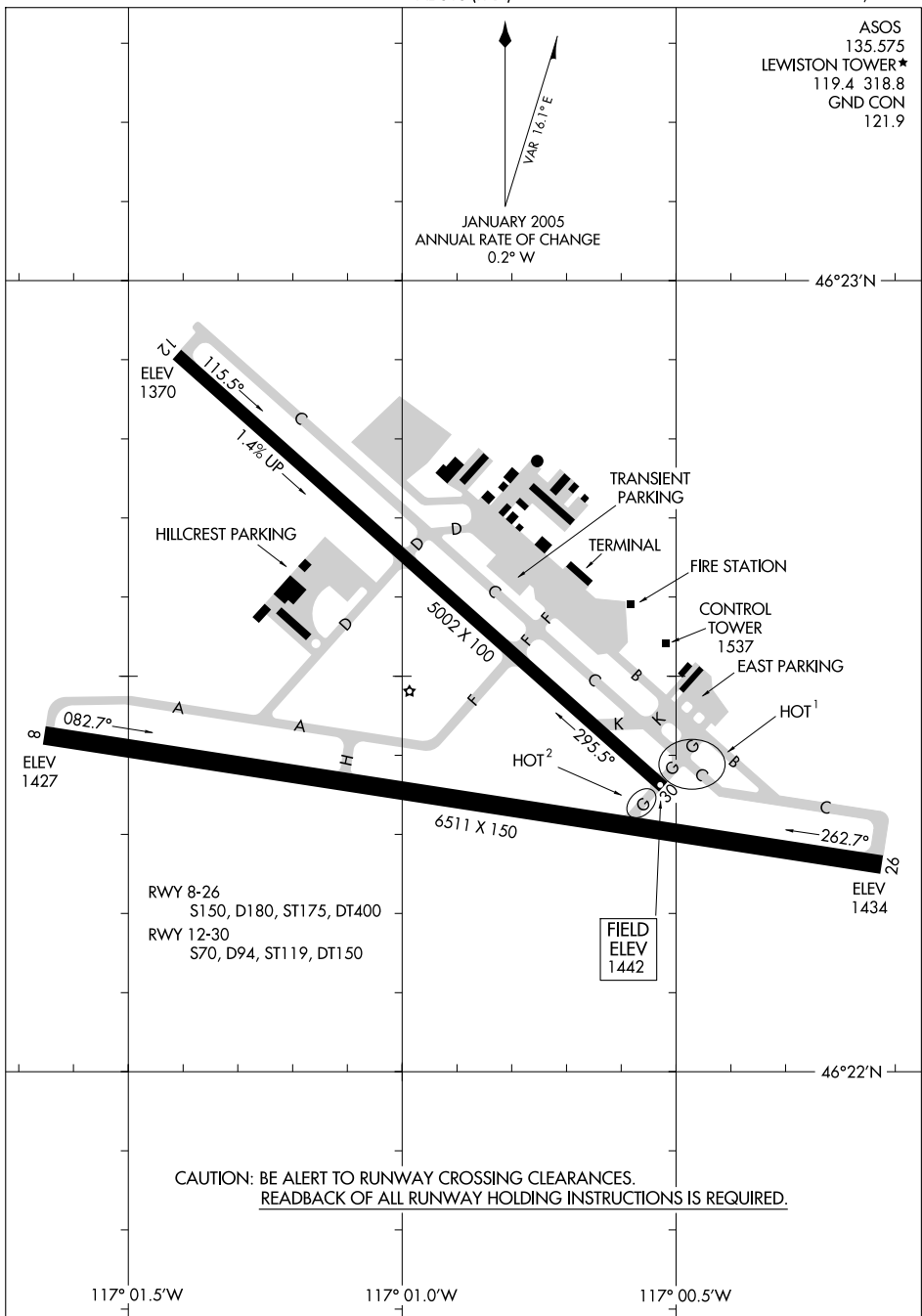
One Minute Holding Pattern				VORTAC		8000		TWF 115.8	
8000				166°		346°		346°	
				RARAC TWF 9.2		5700		QAGDO TWF 14.2	
				9.2 NM		5 NM			
CATEGORY	A		B		C		D		
CIRCLING	4580-1		527 (600-1)		4580-1½ 527 (600-1½)		4620-2 567 (600-2)		



AIRPORT DIAGRAM

LEWISTON-NEZ PERCE COUNTY (LWS)

LEWISTON, IDAHO



NW-1, 03 JUN 2010 to 01 JUL 2010

LOC I-LWS <u>109.7</u>	APP CRS 264°	Rwy Idg 6511 TDZE 1442 Apt Elev 1442
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ILS RWY 26

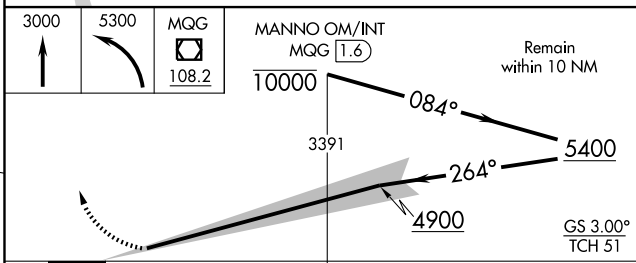
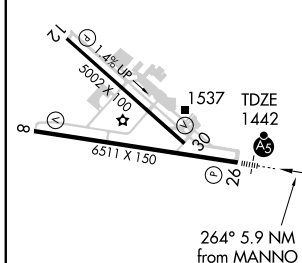
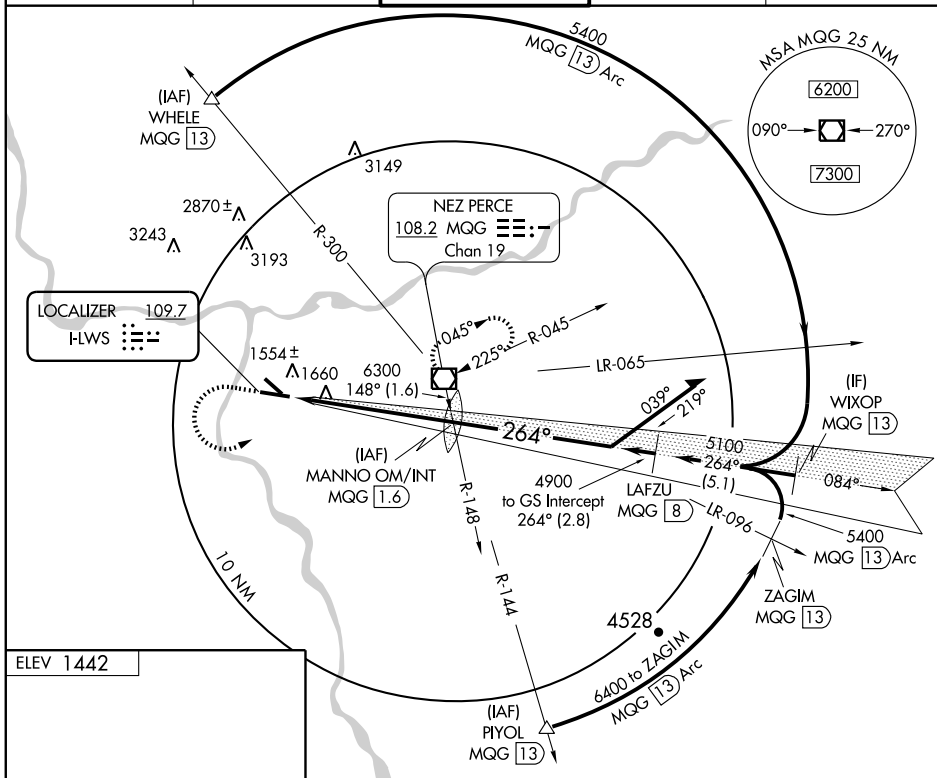
LEWISTON-NEZ PERCE COUNTY (LWS)

- T** When local altimeter setting not received, procedure NA.
A Autopilot coupled approach NA below 2500.
 Circling requires descent on GS to CMDA.

MALSR
A5

MISSED APPROACH: Climb to 3000 then climbing left turn to 5300 direct MQG VOR/DME and hold, continue climb-in-hold to 5300.

ASOS 135.575	SEATTLE CENTER 123.95 282.3	LEWISTON TOWER* 119.4 (CTAF) 0 318.8	GND CON 121.9	UNICOM 122.95
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REIL Rwys 8 and 12 L HIRL Rwy 8-26 MIRL Rwy 12-30	<div><div></div><div><div></div><div>5.9 NM</div></div></div>				
	CATEGORY	A	B	C	D
	S-ILS 26	1642-½ 200 (200-½)			
	CIRCLING	1900-1 458 (500-1)	1920-1 478 (500-1)	1960-1½ 518 (600-1½)	2160-2¼ 718 (800-2¼)

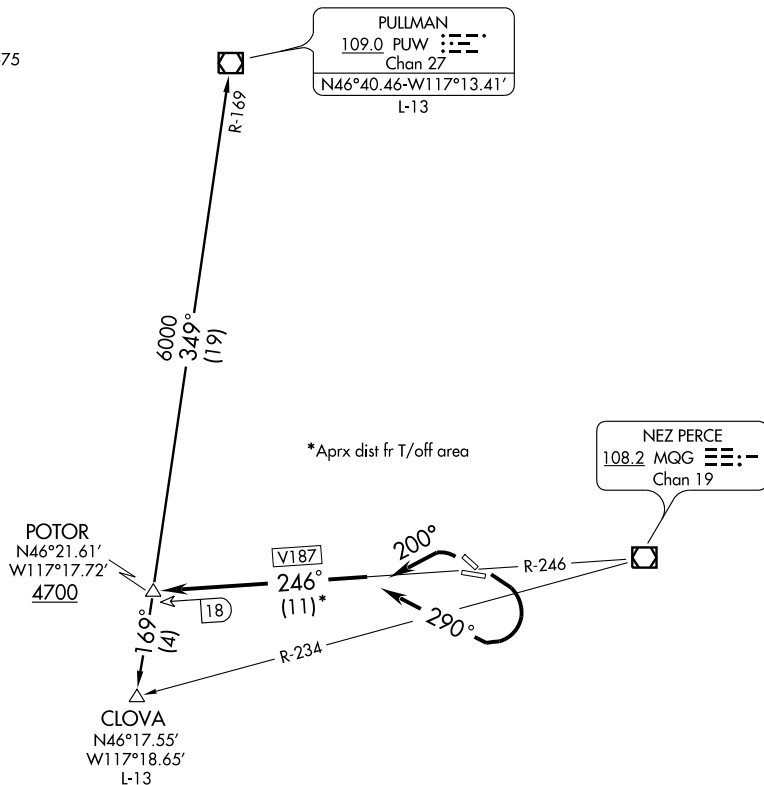
POTOR TWO DEPARTURE

LEWISTON-NEZ PERCE COUNTY (LWS)

SL-51.5 (FAA)

LEWISTON, IDAHO

GND CON
121.9
CTAF 119.4
ASOS 135.575



NOTE: Departures may be restricted to cross POTOR INT at 5000.

NOTE: Minimum climb required- Rws 26 and 30-300'/NM to 4700' (750 FPM/150K IAS, 1000 FPM/200K IAS).
Rws 8 and 12-270'/NM to 4700' (675 FPM/150K IAS, 900 FPM/200K IAS) or 4600' ceiling and three miles visibility.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 8, 12: Turn right heading 290°. Thence....

TAKE-OFF RUNWAYS 26, 30: Turn left heading 200°. Thence....

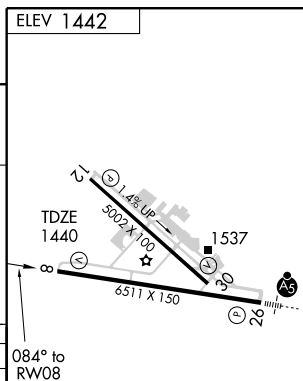
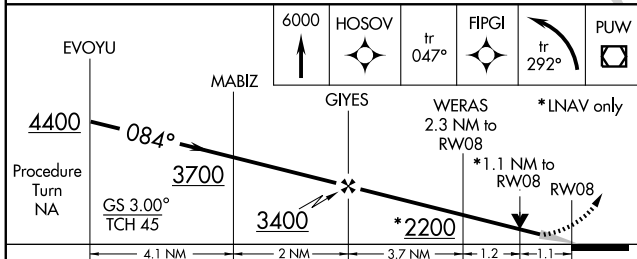
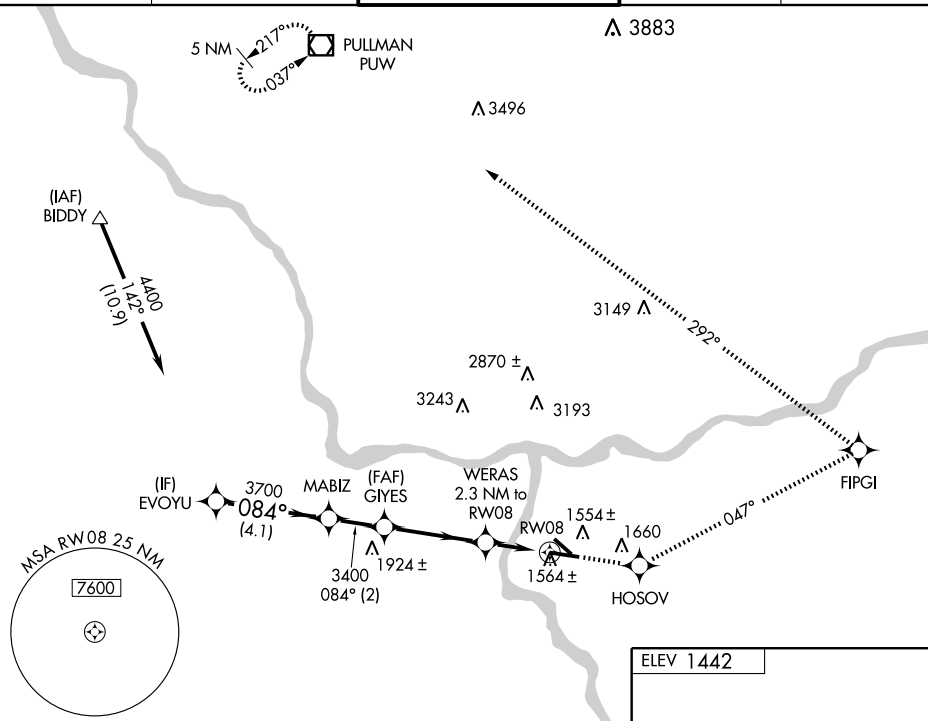
....Intercept and proceed via MQG R-246 (V187) to POTOR INT. Thence via (assigned route) or (transition).

CLOVA TRANSITION (POTOR2.CLOVA): From over POTOR INT via PUW R-169 to CLOVA INT.

PULLMAN TRANSITION (POTOR2.PUW): From over POTOR INT via PUW R-169 to PUW VOR/DME.

RNAV (GPS) Y RWY 8
LEWISTON-NEZ PERCE COUNTY (LWS)

MISSED APPROACH: Climb to 6000 direct HOSOV and via track 047° to FIPGI, and left turn via track 292° to PUW VOR/DME and hold.

UNICOM
122.95

CATEGORY	A	B	C	D
LPV DA	1690-1 250 (300-1)			
LNAV/ VNAV DA	1831-1½ 391 (400-½)			
LNAV MDA	1820-1 380 (400-1)			1820-1¼ 380 (400-1¼)
CIRCLING	1900-1 458 (500-1)	1920-1 478 (500-1)	1960-1½ 518 (600-1½)	2160-2 ¼ 718 (800-2¼)

REIL Rwy 8 and 12 **L**
HIRL Rwy 8-26
MIRL Rwy 12-30

WAAS CH 56500 W12A	APP CRS 117°	Rwy Idg TDZE Apt Elev	5002 1415 1442
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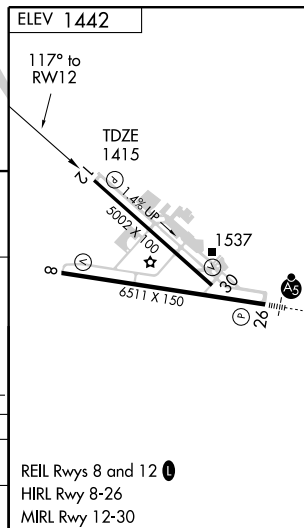
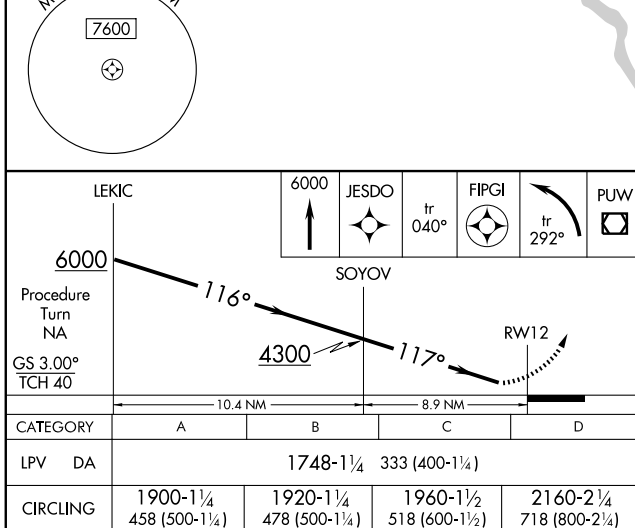
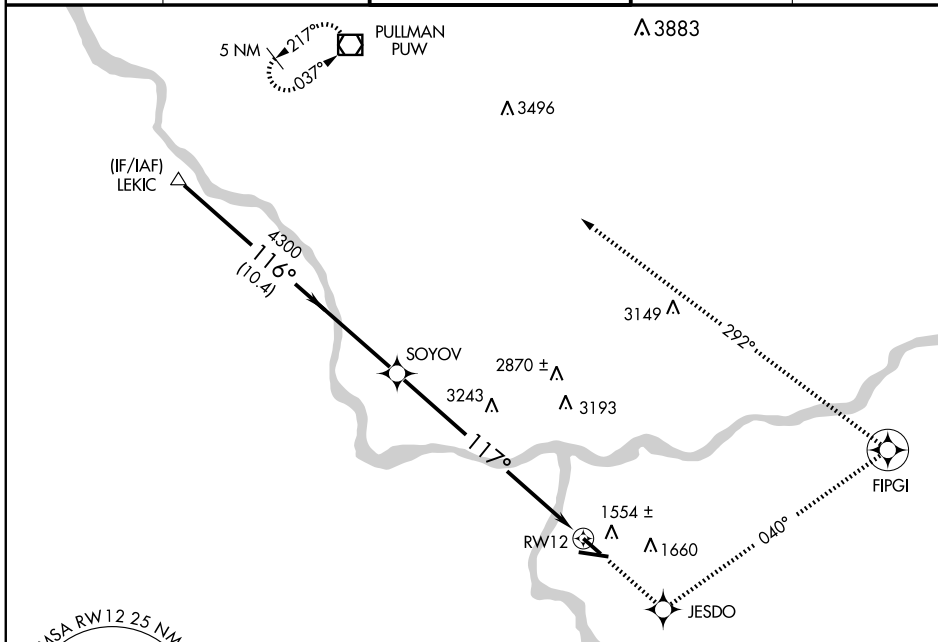
RNAV (GPS) Y RWY 12

LEWISTON-NEZ PERCE COUNTY (LWS)

When local altimeter setting not received, procedure NA.
DME/DME RNP 0.3 NA.
Visibility reduction by helicopters NA.
Circling requires descent on glidepath to CMA.

MISSED APPROACH: Climb to 6000 direct JESDO
and via track 040° to FIPI, and left turn via
track 292° to PUW VOR/DME and hold.

ASOS 135.575	SEATTLE CENTER 123.95 282.3	LEWISTON TOWER ★ 119.4 (CTAF) 0 318.8	GND CON 121.9	UNICOM 122.95
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RNAV (GPS) Y RWY 26
LEWISTON-NEZ PERCE COUNTY (LWS)

MISSED APPROACH: Climb to 7000 direct GIYES and via track 246° to SEVER and hold, continue climb-in-hold to 7000.

MSA RW 26 25 NM

7600

Δ 3149

Δ 2870 ±

Δ 3243 Δ 3193

Procedure NA for arrivals at MQG VOR/DME via V253 northbound.

GIYES

246°

1554 ±

Δ 1660

RW26

NEZ PERCE

MQG

6300 to HENVO

092° (10.6)

4700

264° (2.8)

(FAF) JANIG

FONDA

5600 NoPT

174° (6.4)

(IAF) PETEZ

5 NM

084°

264°

5000 NoPT

313° (4.2)

5100

264° (3.2)

(IF/IAF) HENVO

SAKME

5200

313° (3.5)

(IAF)

4528

2364 ±

2524 ±

GAGGO

4.9 NM to RW26

MISSED APCH FIX

7 NM

251°

071°

SEVER

ELEV 1442

ZATIP





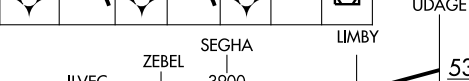
7000 ↑	GIYES ✦	tr 246°	SEVER △				
*LNAV only		GAGGO		JANIG	FONDA	HENVO	5 NM Holding Pattern
*1.4 NM to RW26		4.9 NM to RW26				084° → 5600	
RW26		3060*		4700	264° 5100	264° ←	GS 3.00° TCH 5T
1.4 NM		3.5 NM		4.9 NM	2.8 NM	3.2 NM	
CATEGORY	A		B		C		D
LPV DA	1642-½		200 (200-½)				
LNAV/VNAV DA	1962-1¼		520 (600-1¼)				
LNAV MDA	1920-½ 478 (500-½)		1920-¾ 478 (500-¾)		1920-1 478 (500-1)		
CIRCLING	1920-1 478 (500-1)		1960-1½ 518 (600-1½)		2160-2¼ 718 (800-2¼)		

REIL Rwy 8 and 12 **1**
HIRL Rwy 8-26
MIRL Rwy 12-30

RNAV (RNP) RWY 30
LEWISTON-NEZ PERCE COUNTY (LWS)

MISSED APPROACH: Climb to 6000 via track 297° to HERAG and via left turn to VESZY and via left turn to ISEKE and via track 020° to MQG VOR/DME and hold.

UNICOM
122.95

6000 ↑ tr 297°	HERAG 	VESZY 	ISEKE 	tr 020°	MQG 	UDAGE	Procedure Turn NA
							GP 3.00° TCH 47
CATEGORY	A		B		C		D
RNP 0.30 DA			1760-1 318 (400-1)				

REIL Rwy 8 and 12 **L**
HIRL Rwy 8-26
MIRL Rwy 12-30

**SPECIAL AIRCRAFT AND AIRCREW
AUTHORIZATION REQUIRED**

APP CRS	Rwy Idg	6511
084°	TDZE	1440
	Apt Elev	1442

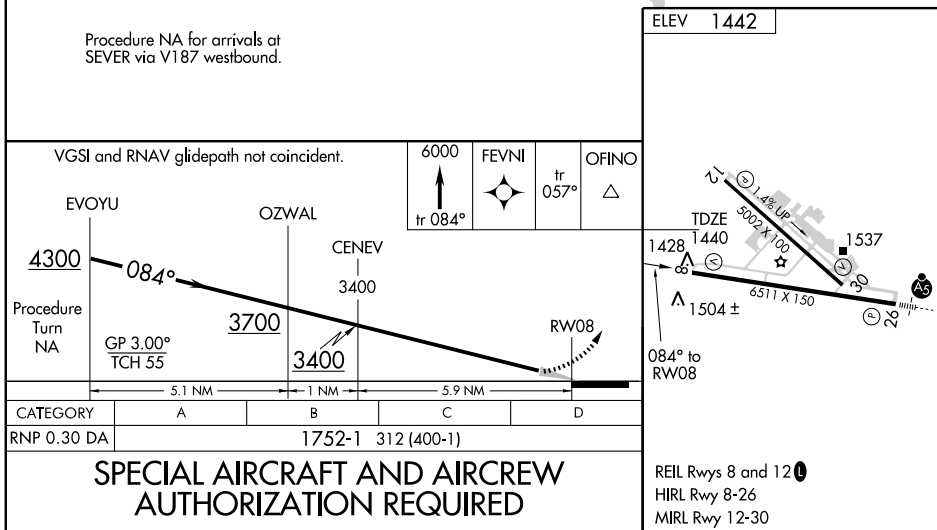
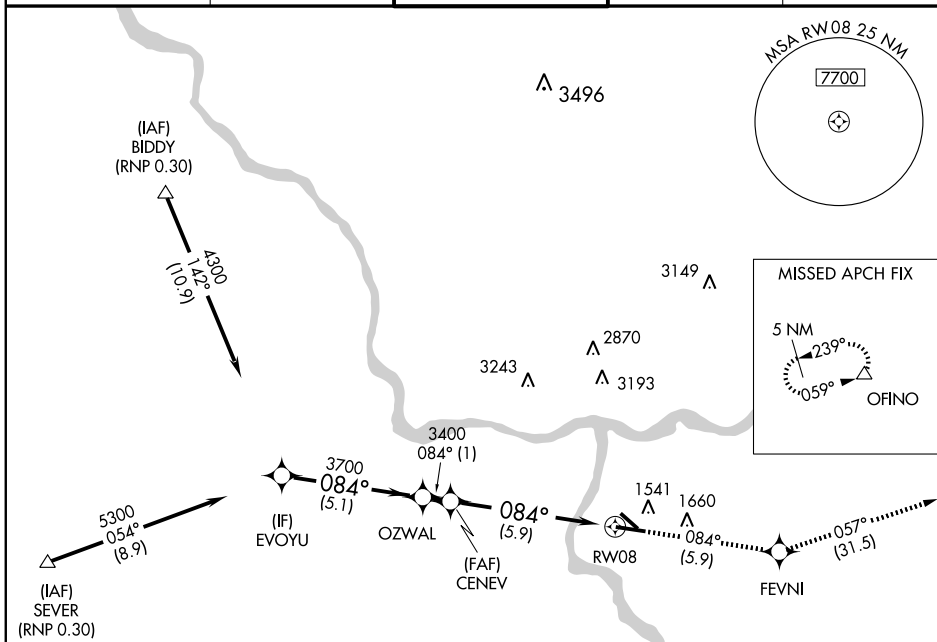
RNAV (RNP) Z RWY 8

LEWISTON-NEZ PERCE COUNTY (LWS)

GPS required. For uncompensated Baro-VNAV systems, procedure NA below -16°C (3°F) or above 46°C (115°F). When VGSI inop, procedure NA at night.

MISSED APPROACH: Climb to 6000 via track 084° to FEVNI and via track 057° to OFINO and hold.

ASOS 135.575	SEATTLE CENTER 123.95 282.3	LEWISTON TOWER★ 119.4 (CTAF) 0 318.8	GND CON 121.9	UNICOM 122.95
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APP CRS 117°	Rwy Idg TDZE Apt Elev	5002 1415 1442
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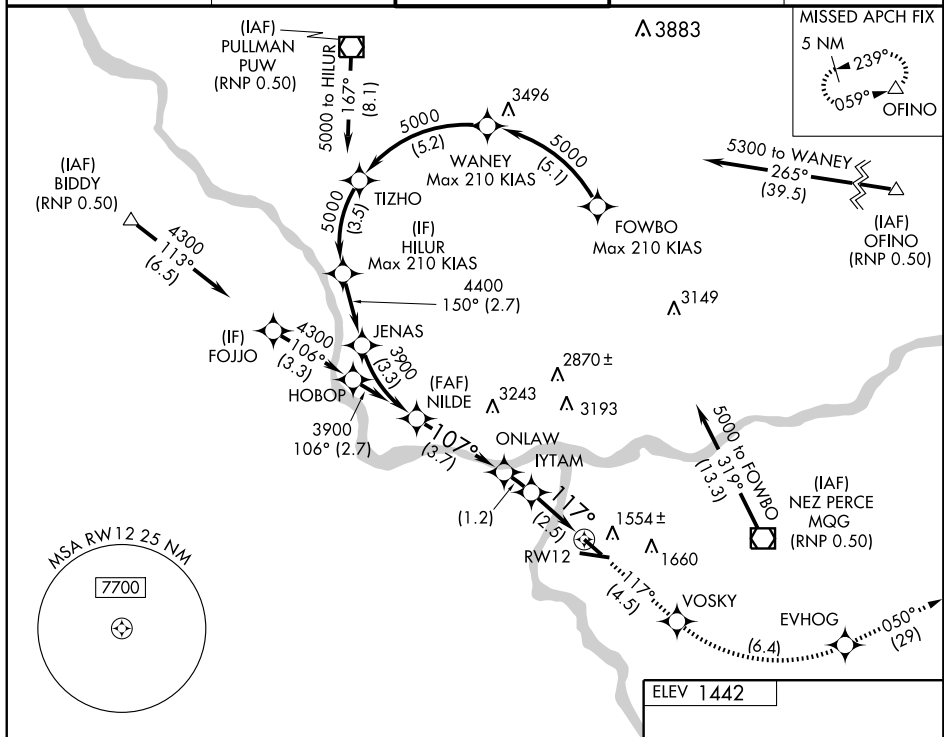
RNAV (RNP) Z RWY 12

LEWISTON-NEZ PERCE COUNTY (LWS)

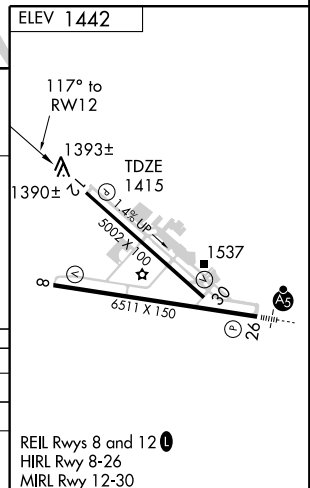
GPS and RF Required. For uncompensated Baro-VNAV systems, procedure NA below -16°C (3°F) or above 36°C (98°F).
*** Missed approach requires minimum climb of 260 feet per NM to 3400.**
 Procedure NA at night.

MISSED APPROACH: Climb to 6000 via track 117° to VOSKY and via left turn to EVHOG and via track 050° to OFINO and hold.

ASOS 135.575	SEATTLE CENTER 123.95 282.3	LEWISTON TOWER ★ 119.4 (CTAF) 318.8	GND CON 121.9	UNICOM 122.95
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VGSI and RNAV glidepath not coincident.				
Procedure	NILDE	VOSKY	EVHOG	OFINO
Turn	3900			
NA				
GP 3.10°				
TCH 56				
See Planview for multiple IF locations.				
3.7 NM	1.2 NM	2.5 NM		
CATEGORY	A	B	C	D
RNP 0.30 DA*	1683-1	268 (300-1)		
RNP 0.30 DA	1887-1 $\frac{3}{4}$	472 (500-1 $\frac{3}{4}$)		



**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**

APP CRS	Rwy Idg	6511
264°	TDZE	1442
	Apt Elev	1442

RNAV (RNP) Z RWY 26

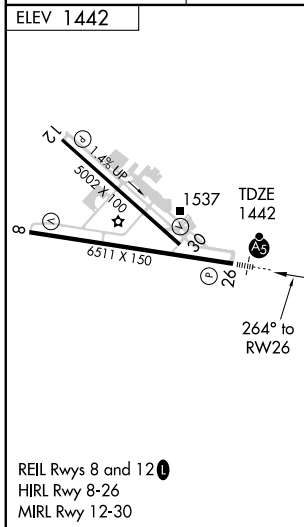
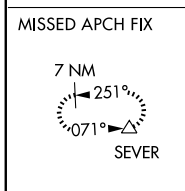
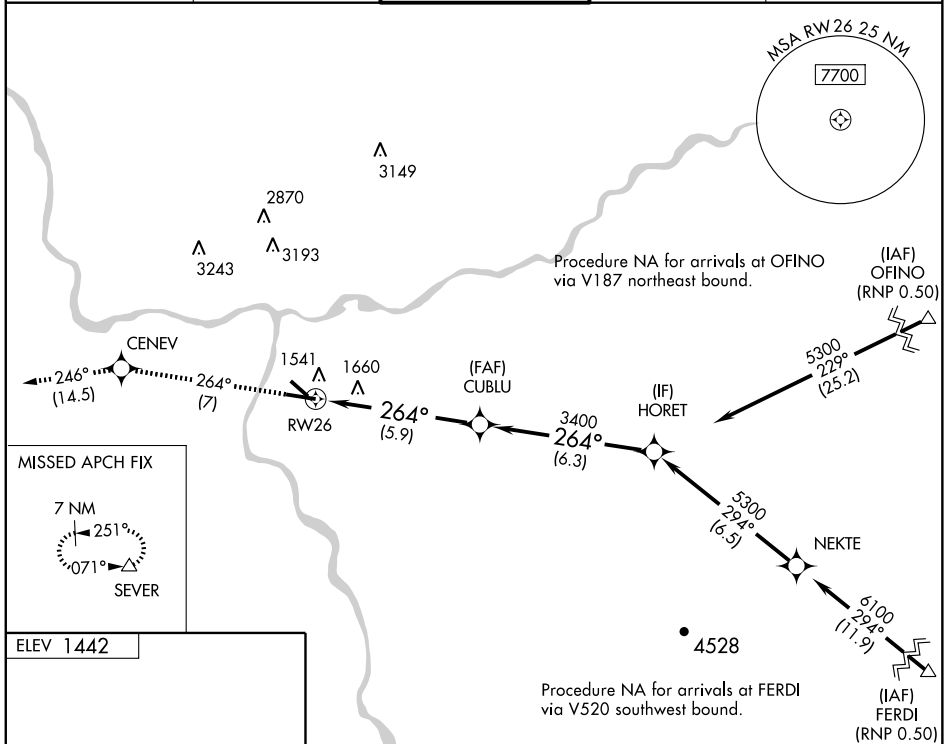
LEWISTON-NEZ PERCE COUNTY (LWS)

GPS Required. For uncompensated Baro-VNAV systems, procedure NA below -16°C (3°F) or above 46°C (115°F). For inoperative MALSR, increase RNP 0.20 visibility all Cats to 1 mile and RNP 0.30 visibility all Cats to 2 miles.



MISSED APPROACH: Climb to 7000 via track 264° to CENEV and via track 246° to SEVER and hold, continue climb-in-hold to 7000.

ASOS 135.575	SEATTLE CENTER 123.95 282.3	LEWISTON TOWER★ 119.4 (CTAF) 318.8	GND CON 121.9	UNICOM 122.95
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7000	CENEV	tr 264°	SEVER	HORET	Procedure Turn NA
tr 264°	tr 246°				
	CUBLU	3400	5300		GP 3.00° TCH 51
	RW26	3400			
	5.9 NM	6.3 NM			
CATEGORY	A	B	C	D	
RNP 0.20 DA	1715-1/2	273 (300-1/2)			
RNP 0.30 DA	2003-1/2	561 (600-1/2)			

SPECIAL AIRCRAFT AND AIRCREW
AUTHORIZATION REQUIRED

VOR/DME MQG 108.2 Chan 19	APP CRS 066°	Rwy Idg 6511 TDZE 1440 Apt Elev 1442
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VOR RWY 8
LEWISTON-NEZ PERCE COUNTY (LWS)



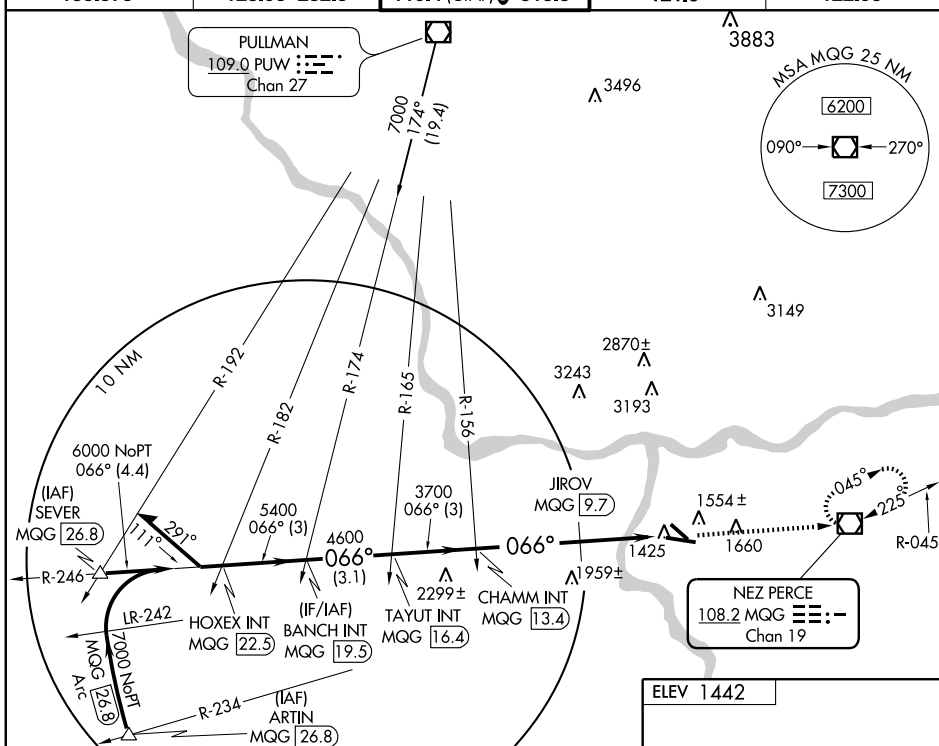
MISSED APPROACH: Climb to 5000 direct MQG VOR/DME and hold, continue climb-in-hold to 5000.

ASOS
135.575

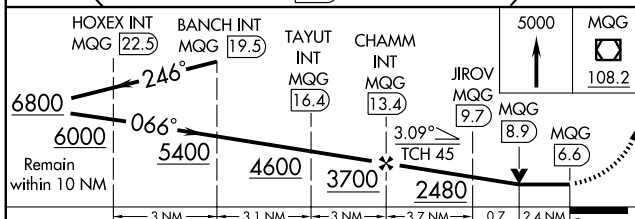
SEATTLE CENTER
123.95 282.3

LEWISTON TOWER ★
119.4 (CTAF) **L** 318.8

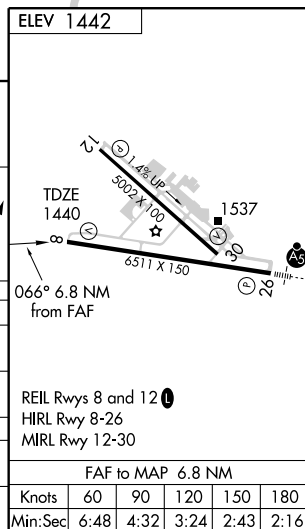
GND CON
121.9

UNICOM
122.95

NW-1. 03 JUN 2010 to 01 JUL 2010




CATEGORY	A	B	C	D
S-8	2480-1¼ 1040 (1100-1¼)	2480-1½ 1040 (1100-1½)	2480-3	1040 (1100-3)
CIRCLING	2480-1¼ 1038 (1100-1¼)	2480-1½ 1038 (1100-1½)	2480-3	1038 (1100-3)
JIROV FIX MINIMUMS				
S-8	2220-1 780 (800-1)	2220-1¼ 780 (800-1¼)	2220-2¼ 780 (800-2¼)	2220-2½ 780 (800-2½)
CIRCLING	2220-1 778 (800-1)	2220-1¼ 778 (800-1¼)	2220-2¼ 778 (800-2¼)	2220-2½ 778 (800-2½)

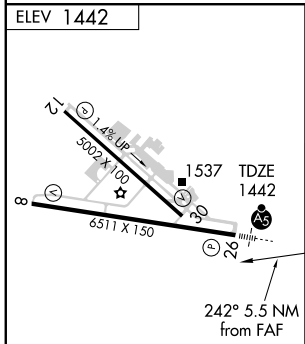
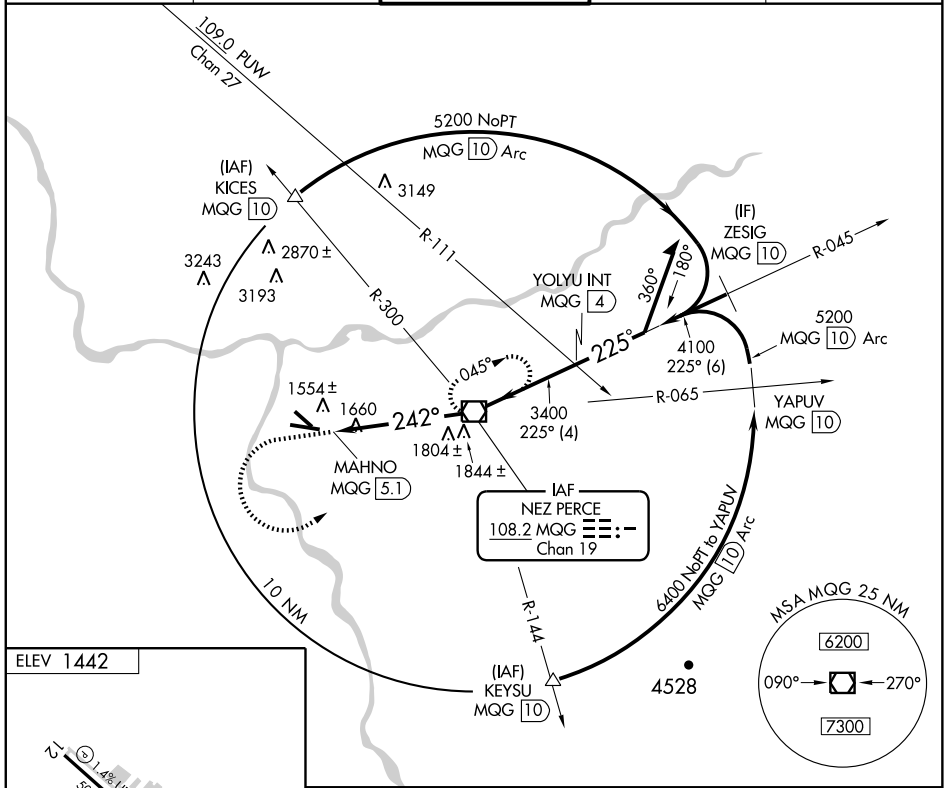


VOR/DME MQG <u>108.2</u> Chan 19	APP CRS 242°	Rwy Idg 6511 TDZE 1442 Apt Elev 1442
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VOR RWY 26
LEWISTON-NEZ PERCE COUNTY (LWS)


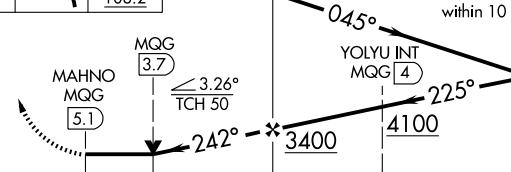
<p>T Inoperative table does not apply to S-26 Cats C and D.</p> <p>A When local altimeter setting not received, procedure NA.</p>	<p>MALSR</p> 	<p>MISSED APPROACH: Climb to 2600 then climbing left turn to 5000 direct MQG VOR/DME and hold, continue climb-in-hold to 5000.</p>
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ASOS 135.575	SEATTLE CENTER 123.95 282.3	LEWISTON TOWER* 119.4 (CTAF) 318.8	GND CON 121.9	UNICOM 122.95
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REIL Rwy 8 and 12 **L**
HIRL Rwy 8-26
MIRL Rwy 12-30


FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42


2600 ↑	5000 ↖	MQG  <u>108.2</u>	VGSI and descent angles not coincident.	
				
CATEGORY	A	B	C	D
S-26	2060-½ 618 (700-½)		2060-1¾ 618 (700-1¾)	2060-2 618 (700-2)
CIRCLING	2060-1 618 (700-1)		2060-1¾ 618 (700-1¾)	2160-2¼ 718 (800-2¼)

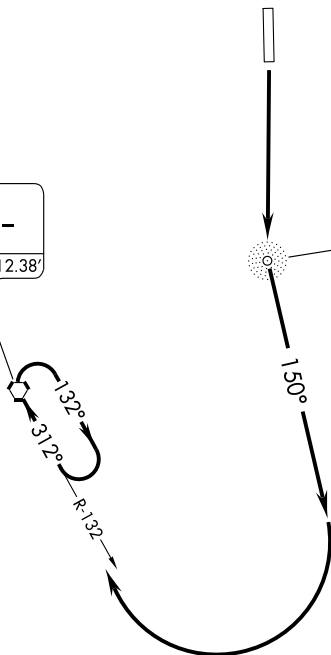
NW-1 03 JUN 2010 to 01 JUL 2010

MCCALL ONE DEPARTURE (OBSTACLE)

ASOS 119.925
BOISE RADIO
122.35
SALT LAKE CENTER
128.05 387.15

DONNELLY
116.2 DNJ 
Chan 109
N44°46.03'-W116°12.38'
L-13, H-1

MC CALL
363 IOM 
N44°48.34'-W116°06.14'



TAKE-OFF OBSTACLE NOTES

Rwy 16: Trees beginning 291' from DER, 550' left of centerline, up to 101' AGL/5180' MSL.
Pole 3083' from DER, 1271' right of centerline, 34' AGL/5113' MSL.
Pole 4218' from DER, 521' left of centerline, 29' AGL/5128' MSL.
Shrub 63' from DER, 289' left of centerline, 7' AGL/5013' MSL.
Bldg 1066' from DER, 524' right of centerline, 36' AGL/5035' MSL.
Terrain beginning 1832' from DER, 445' left of centerline, up to 5079' MSL.
Terrain beginning 1236' from DER, 159' right of centerline, up to 5097' MSL.

TAKE-OFF MINIMUMS

Rwy 16: 200-1 or standard with minimum climb of 362' per NM to 5300.
Rwy 34: NA - Obstacles.

NOTE: ADF required

NOTE: Chart not to scale.



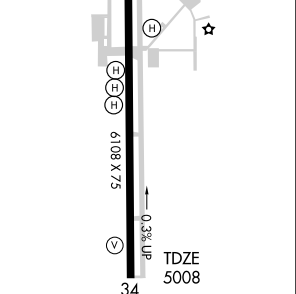
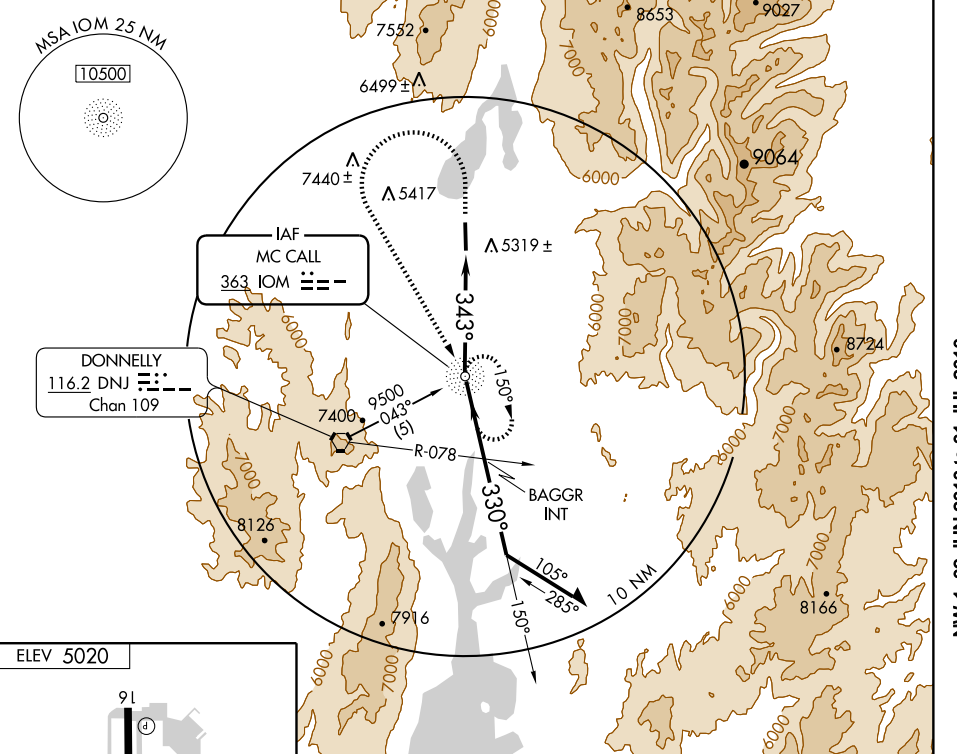
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb to 9600 direct IOM NDB and via IOM NDB 150° bearing then climbing right turn to 10400 direct DNJ VORTAC, continue climb-in-hold to 10400 before proceeding on course.

NA If local altimeter setting not received, procedure NA.

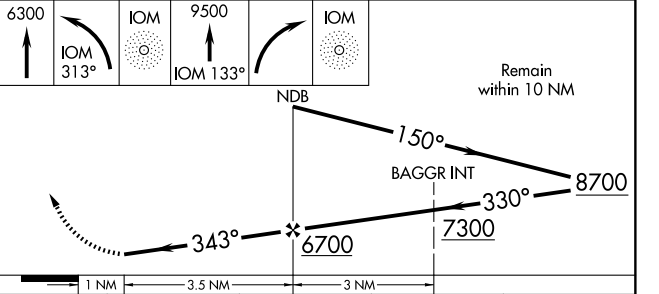
MISSED APPROACH: Climb to 6300, then climbing left turn via IOM NDB 313° bearing to IOM NDB, continue climb via IOM NDB 133° bearing to 9500, then turn right direct IOM NDB and hold.

ASOS 119.925	SALT LAKE CENTER 128.05 387.15	UNICOM 122.8 (CTAF)
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MIRL Rwy 16-34
REIL Rwy 16 and 34

FAF to MAP 3.5 NM					
Knots	60	90	120	150	180
Min:Sec	3:30	2:20	1:45	1:24	1:10



CATEGORY	A	B	C	D
S-34	5800-1¼ 792 (800-1¼)	5800-2¼ 792 (800-2¼)	5800-2½ 792 (800-2½)	5800-2½ 792 (800-2½)
CIRCLING	5800-1¼ 780 (800-1¼)	5840-2½ 820 (900-2½)	5840-2½ 820 (900-2½)	6000-3 980 (1000-3)

APP CRS
177°

Rwy Idg
TDZE
Apt Elev

6108
5024
5024

RNAV (GPS) RWY 16

MC CALL MUNI (MYL)

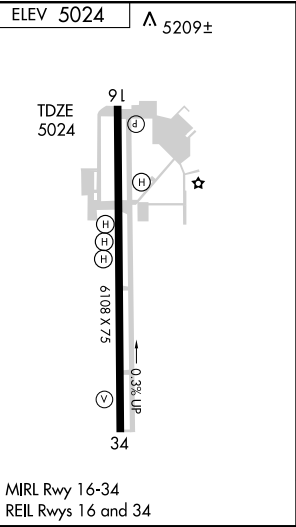
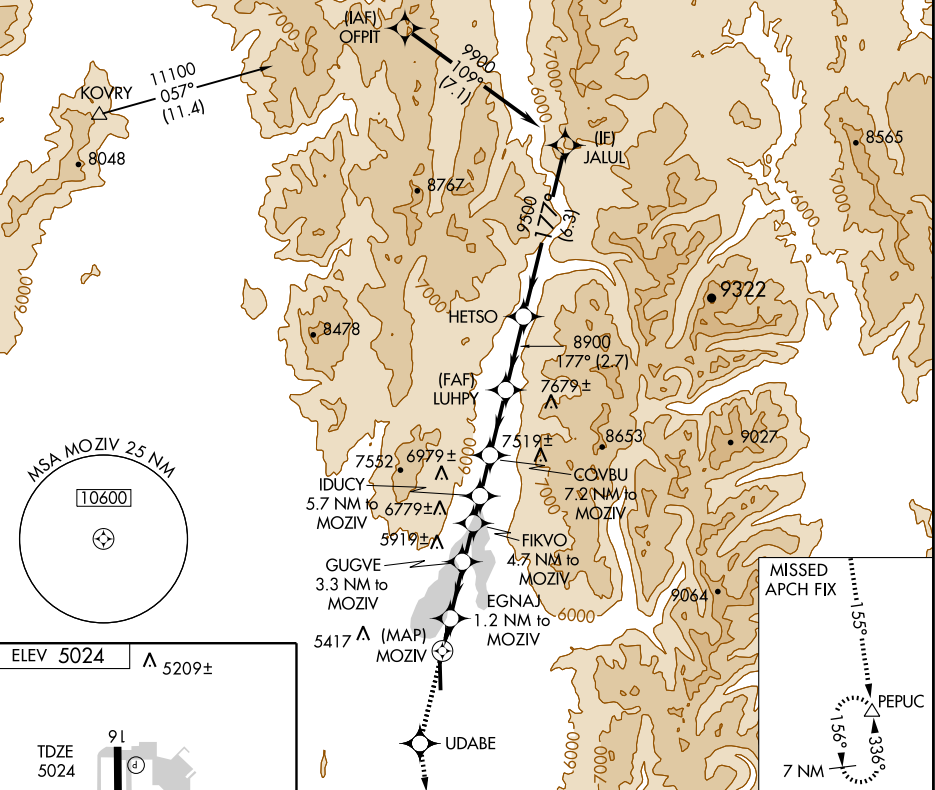
V

A

DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 11700 direct UDABE and via track 155° to PEPUC and hold, continue climb-in-hold to 11700.

ASOS 119.925	SALT LAKE CENTER 128.05 387.15	UNICOM 122.8 (CTAF)
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11700	UDABE	1r 155°	PEPUC	VGSI and descent angles not coincident.				JALUL
				UDABE	COVBU	LUHPY	HETSO	
				5.7 NM to MOZIV	7.2 NM to MOZIV			
				EGNAJ	GUGVE	FIKVO		
				1.2 NM to MOZIV	3.3 NM to MOZIV	4.7 NM to MOZIV		
				5660	6480	7020	7980	9500
				0.4	1.2	2.1 NM	1.4 NM	1 NM
						1.5 NM	2.4 NM	2.7 NM
								6.3 NM
CATEGORY	A		B		C		D	
LNAV MDA	5540-1		516 (600-1)		5540-1½ 516 (600-1½)		NA	
CIRCLING	5660-1		636 (700-1)		5840-2½ 816 (900-2½)		NA	

NW-1, 03 JUN 2010 to 01 JUL 2010

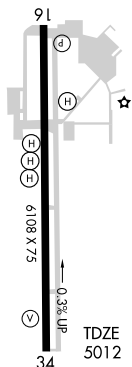
RNAV (GPS) Y RWY 34
MC CALL MUNI (MYL)

MISSED APPROACH: Climb to 12000 direct WUTPU and via track 285° to PAMUV and via track 235° to SUMOQ and hold, continue climb-in-hold to 12000.

UNICOM
122.8 (CTAF)



ELEV 5024



12000

WUTPU

tr 285°

PAMUV

tr 235°

SUMOQ

PEPUC

7 NM Holding Pattern

DOQAN

$\leq 3.07^\circ$ TCH 55

342°

336°

156°

336°

10000

AZBOR

AYDAP

7600

8600

0.9

6.9 NM

4.2 NM

5.5 NM

VGSI and descent angles not coincident.

CATEGORY	A	B	C	D
LNAV MDA*	5580-1	568 (600-1)	5580-1½ 568 (600-1½)	5580-1¾ 568 (600-1¾)
LNAV MDA	6600-1¼ 1588 (1600-1¼)	6600-1½ 1588 (1600-1½)	6600-3	1588 (1600-3)
CIRCLING	6600-1¼ 1576 (1600-1¼)	6600-1½ 1576 (1600-1½)	6600-3	1576 (1600-3)

NW-1. 03 JUN 2010 to 01 JUL 2010

MIRL Rwy 16-34
REIL Rwy 16 and 34

WAAS CH 49016 W34A	APP CRS 342°	Rwy Idg TDZE Apt Elev	6108 5012 5024
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RNAV (GPS) Z RWY 34

MC CALL MUNI (MYL)

▼

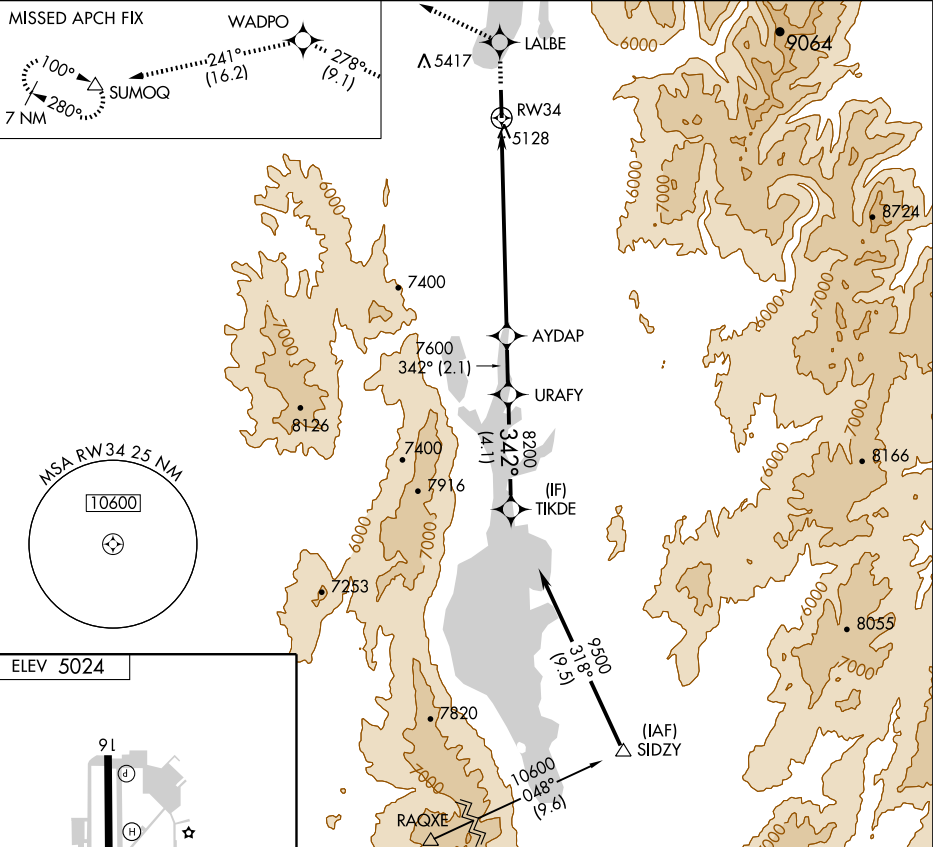
▲

DME/DME RNP-0.3 NA.

Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 12000 direct LALBE and via track 278° to WADPO and via track 241° to SUMOQ and hold, continue climb-in-hold to 12000.

ASOS 119.925	SALT LAKE CENTER 128.05 387.15	UNICOM 122.8 (CTAF)
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<div><div><div>12000</div><div>↑</div></div><div><div>LALBE</div><div></div></div><div><div>tr 278°</div><div></div></div><div><div>WADPO</div><div></div></div><div><div>tr 241°</div><div></div></div><div><div>SUMOQ</div><div></div></div><div><div>TIKDE</div><div>Procedure Turn NA</div></div></div>	VGSI and RNAV glidepath not coincident.			AYDAP	URAFY	9500	
	<div><div><div><div><div>7600</div><div>342°</div></div><div><div>7600</div><div>8200</div></div></div><div><div><div><div>7600</div><div>342°</div></div><div><div>7600</div><div>8200</div></div></div></div></div></div>			GS 3.00° TCH 56			
	RW34			7.8 NM	2.1 NM	4.1 NM	
	CATEGORY	A		B		C	D
LPV DA	5400-1¼ 388 (400-1¼)						

12000

↑

LALBE

tr 278°

WADPO

tr 241°

SUMOQ

TIKDE

Procedure Turn NA

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NW-1. 03 JUN 2010 to 01 JUL 2010

LOC I-MUO 110.3	APCH CRS 117°	Rwy Idg 13,500 TDZE 2986 Arprt Elev 2996
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JAL-323 [USAF]

MOUNTAIN HOME AFB (KMUO)

* When ALS inop, increase CAT CDE RVR to 40 and vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase CAT C RVR to 60 and vis to $1\frac{1}{4}$ miles,
 CAT D vis to $1\frac{1}{2}$ miles, CAT E vis to $1\frac{3}{4}$ miles.

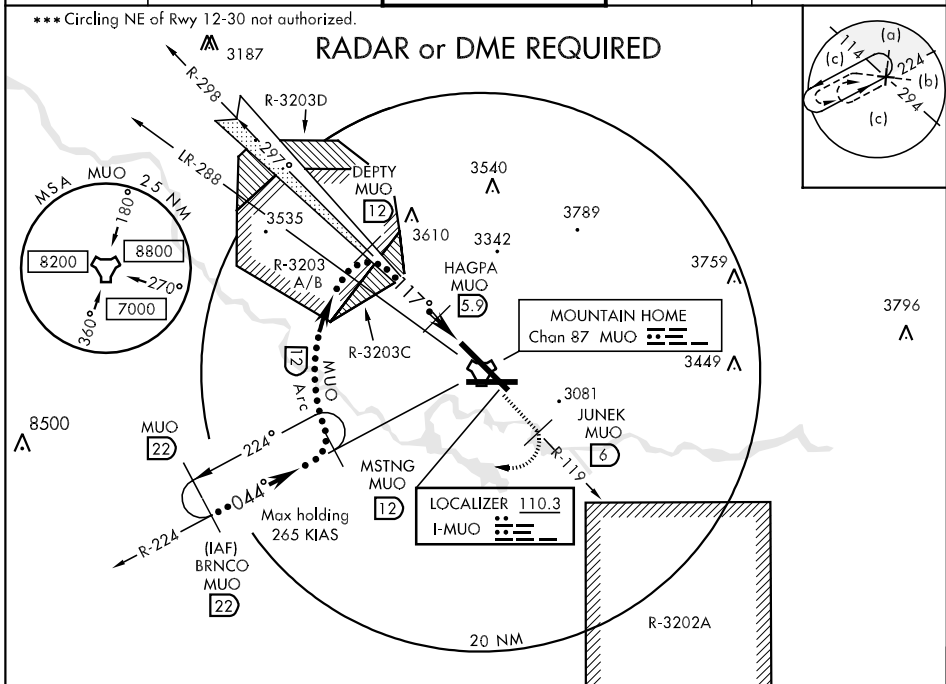


MISSED APPROACH: Climb to 9000 via MUO R-119 to JUNEK INT/6 DME, turn right direct MSTNG and hold.

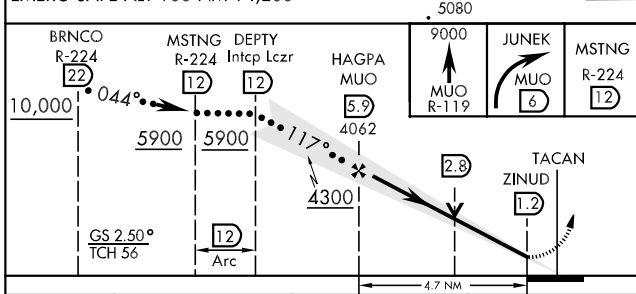
ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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*** Circling NE of Rwy 12-30 not authorized.

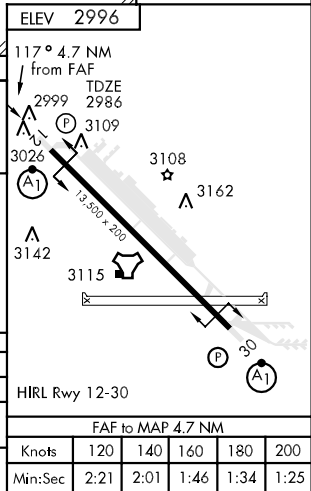
RADAR or DME REQUIRED



EMERG SAFE ALT 100 NM 14,200



CATEGORY	C	D	E
S-ILS 12 *	3186/24	200	(200-1/2)
S-LOC 12 **	3480/40 494 (500-3/4)	3480/50 494 (500-1)	3480/60 494 (500-1 1/4)
CIRCLING ***	3520-1 1/2 524 (600-1 1/2)	3560-2	564 (600-2)



LOC F-BRN 111.7	APCH CRS 297°	Rwy Idg 13,500 TDZE 2996 Arot Elev 2996	JAL-323 [USAF]	MOUNTAIN HOME AFB (KMUO)
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T * When ALS inop., increase CAT CDE RVR to 40 and vis to $\frac{3}{4}$ mile.

ALSF-1

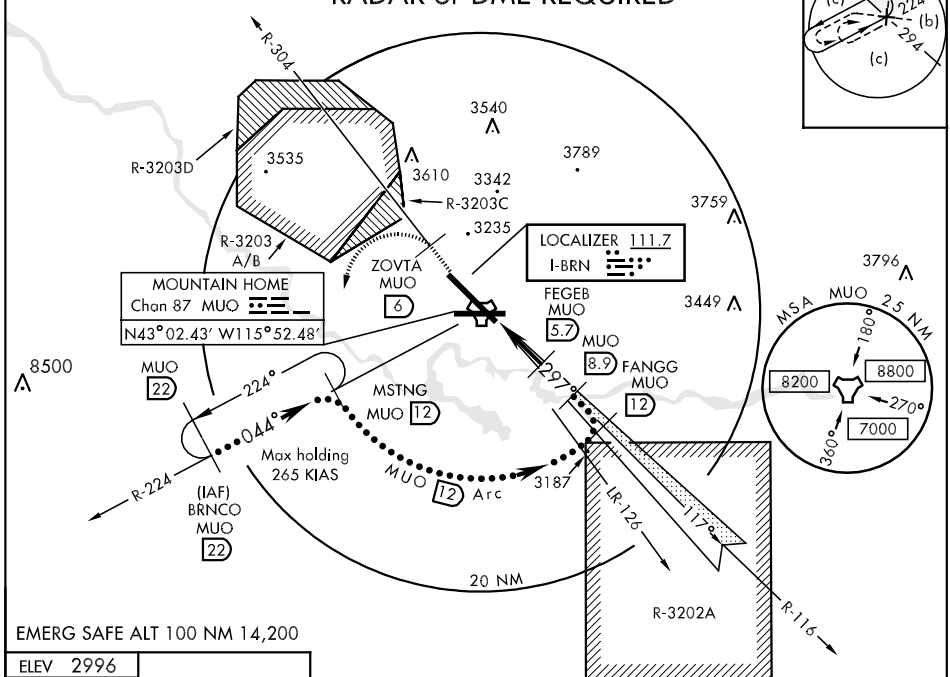
MISSED APPROACH: Climb to 9000 via MUO R-304 to ZOYTA INT/6 DME, turn left direct MSTNG and hold.

ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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* * * Circling NE of Rwy 12-30 not authorized.

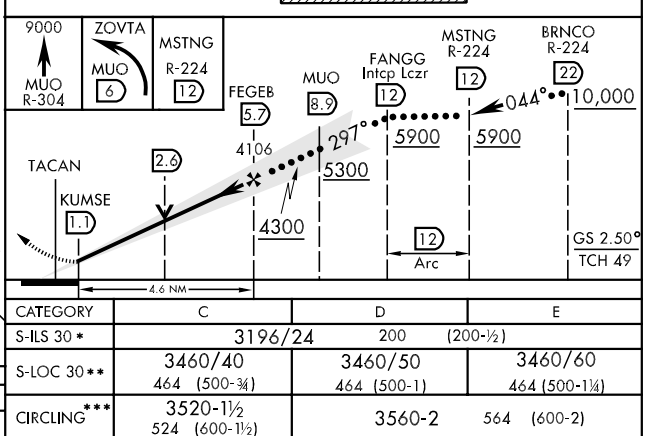
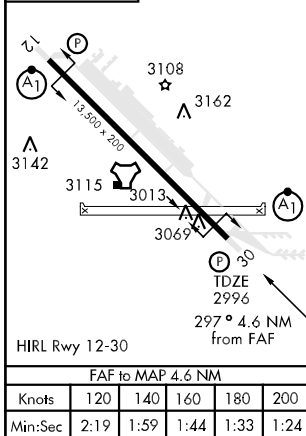
3187

RADAR or DME REQUIRED



EMERG SAFE ALT 100 NM 14,200

ELEV 2996



MOUNTAIN HOME, IDAHO

43°03'N-115°52'W

MOUNTAIN HOME AFB (KMUO)

TACAN MUO Chan 87	APCH CRS 124°	Rwy Idg 13,500 TDZE 2986 Arpt Elev 2996
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JAL-323 [USAF]

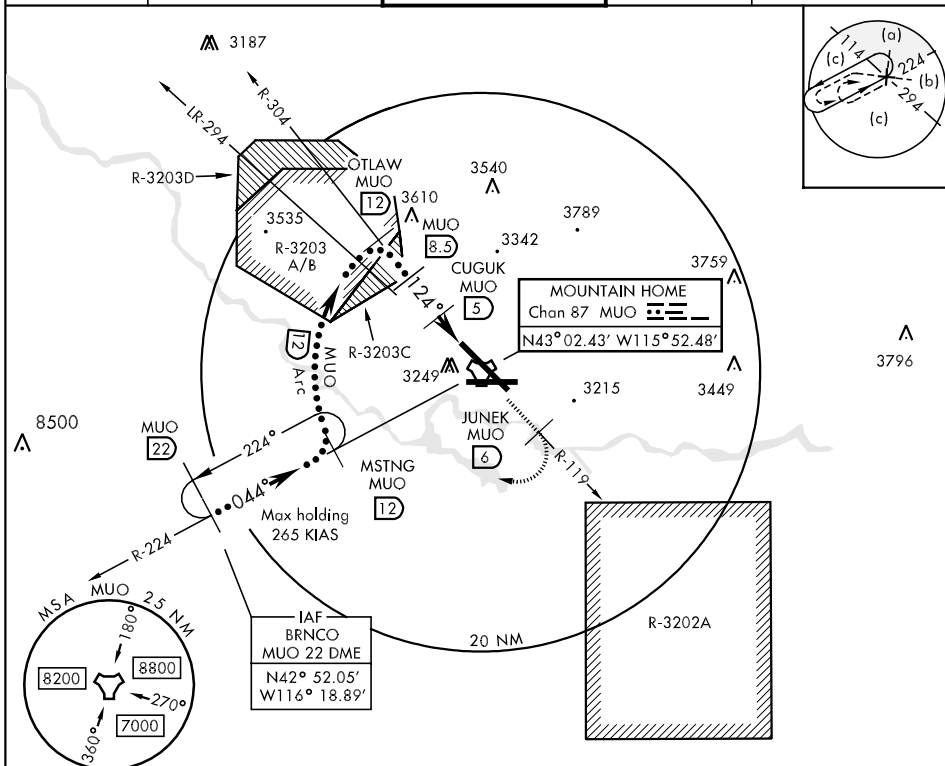
MOUNTAIN HOME AFB (KMUO)

* When ALS inop, increase CAT C RVR to 60 and vis to 1¼ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.
** Circling NE of Rwy 12-30 not authorized.

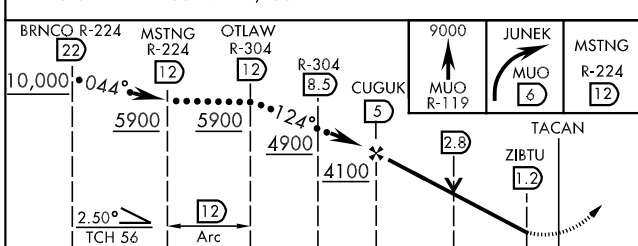


MISSED APPROACH: Climb to 9000 via MUO R-119 to JUNEK INT/6 DME, turn right direct MSTNG and hold.

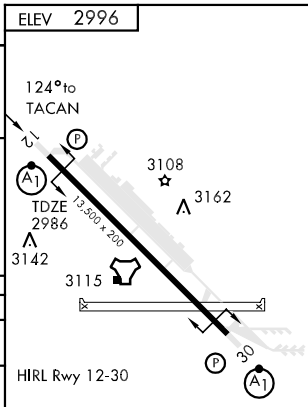
ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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EMERG SAFE ALT 100 NM 14,200



CATEGORY	C	D	E
S-12 *	3480/40 494 (500-3/4)	3480/50 494 (500-1)	3480/60 494 (500-1 1/2)
CIRCLING **	3520-1 1/2 524 (600-1 1/2)	3560-2	564 (600-2)



MOUNTAIN HOME, IDAHO

43°03'N-115°52'W

MOUNTAIN HOME AFB (KMUO)

Orig 08101

ULTAGANBAM 10

TACAN MUO Chan 87	APCH CRS 290°	Rwy Idg 13,500 TDZE 2996 Arpt Elev 2996
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JAL-323 [USAF]

MOUNTAIN HOME AFB (KMUO)

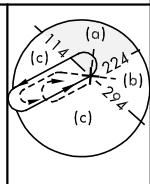
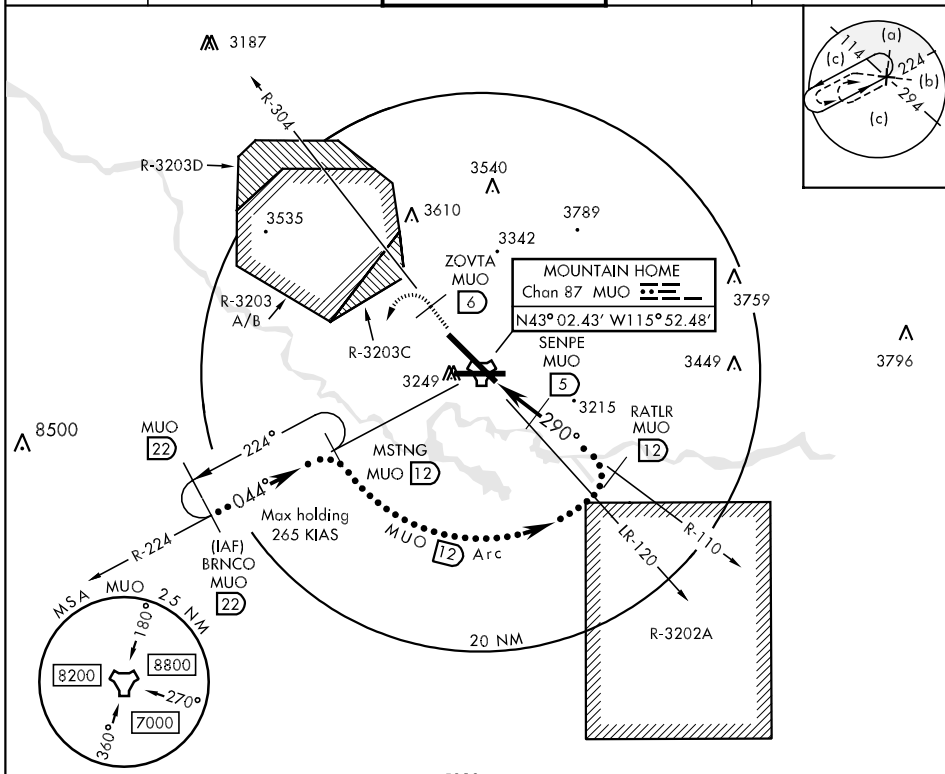
✦ * When ALS inop, increase CAT C RVR to 60 and vis to 1½ miles,
CAT D vis to 1½ miles, CAT E vis to 1¾ miles.

** Circling NE of Rwy 12-30 not authorized.



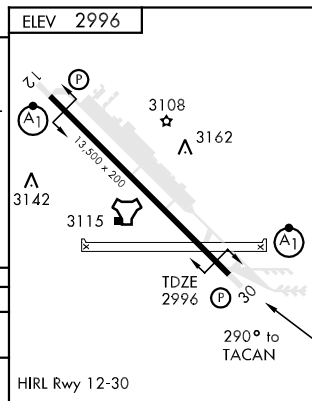
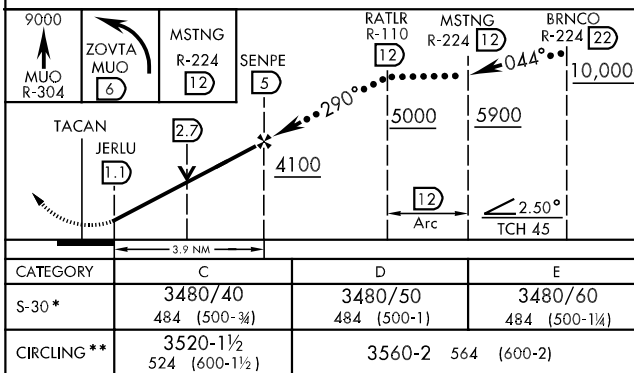
MISSED APPROACH: Climb to 9000 via
MUO R-304 to ZOVRTA INT/6 DME, turn
left direct MSTNG and hold.

ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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EMERG SAFE ALT 100 NM 14,200

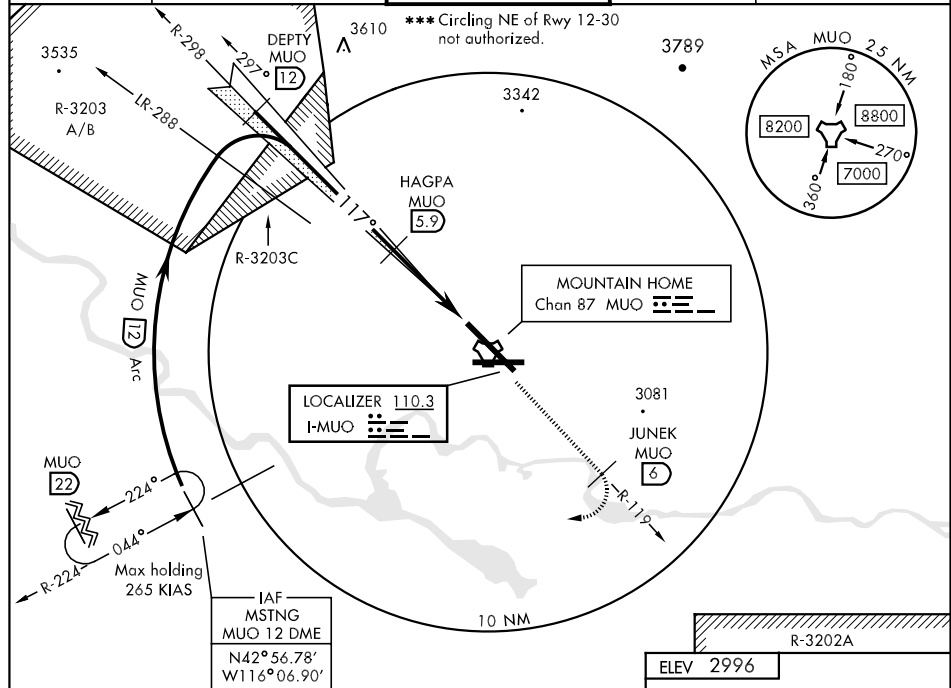
5080



LOC I-MUO 110.3	APCH CRS 117°	Rwy ldg 13,500 TDZE 2986 Arpt Elev 2996	AL-323 [USAF]	MOUNTAIN HOME AFB (KMUO)
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<p>▼ * When ALS inop, increase RVR to 40, vis to ¾ mile.</p> <p>** When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1¼ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.</p>	<p>ALS-1 A1</p>	<p>MISSED APPROACH: Climb to 9000 via MUO R-119 to JUNEK INT/6 DME, turn right direct MSTNG and hold.</p>
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ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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RADAR or DME REQUIRED

EMERG SAFE ALT 100 NM 14,200

CATEGORY	A	B	C	D	E
S-ILS 12 *	3186/24 200 (200-½)				
S-LOC 12 **	3460/24	474 (500-½)	3460/40 474 (500-¾)	3460/50 474 (500-1)	3460/60 474 (500-1½)
CIRCLING ***	3520-1	524 (600-1)	3520-1½ 524 (600-1½)	3560-2	564 (600-2)

HIRL Rwy 12-30					
FAF to MAP 4.7 NM					
Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34

LOC I-BRN **111.7**
APCH CRS **297°**
Rwy Idg **13,500**
TDZE **2996**
Arpt Elev **2996**

AL-323 [USAF]

MOUNTAIN HOME AFB (KMUO)

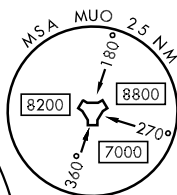
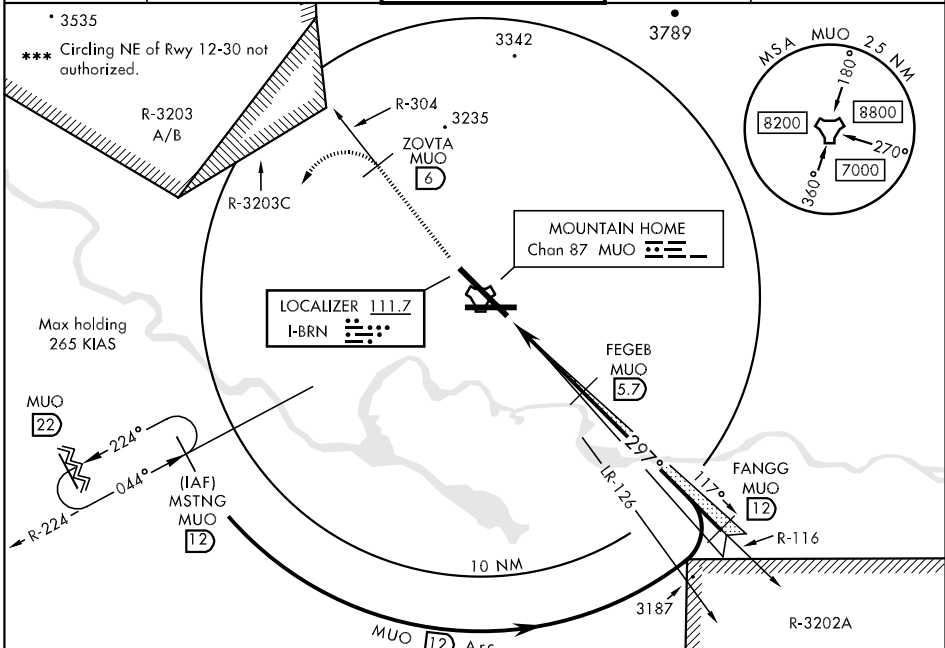
▼ * When ALS inop, increase CAT ABCDE RVR to 40, vis to ¾ mile.
** When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1½ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.

ALSF-1



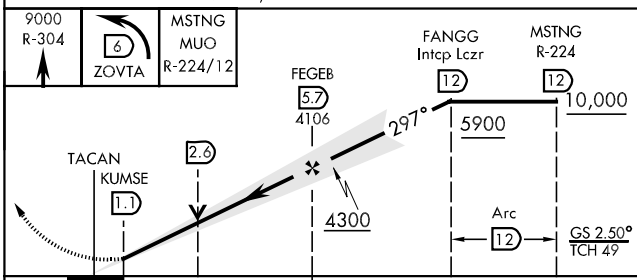
MISSED APPROACH: Climb to 9000 via MUO R-304 to ZOVRTA/6 DME, turn left direct MSTNG and hold.

ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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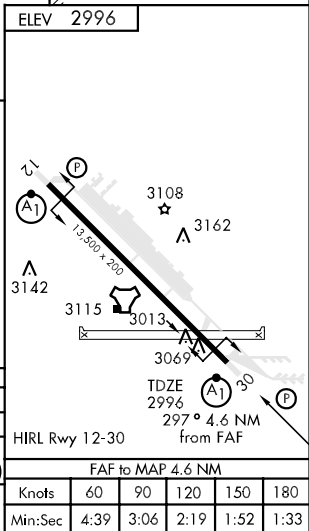


RADAR or DME REQUIRED

EMERG SAFE ALT 100 NM 14,200



CATEGORY	A	B	C	D	E
S-ILS 30 *	3196/24 200 (200-½)				
S-LOC 30 **	3460/24 464 (500-½)	3460/40 464 (500-¾)	3460/50 464 (500-1)	3460/60 464 (500-1½)	
CIRCLING ***	3520-1 524 (600-1)	3520-1½ 524 (600-1½)	3560-2 564 (600-2)		



TACAN MUO Chan 87	APCH CRS 124°	Rwy Idg 13,500 TDZE 2986 Arpt Elev 2996
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AL-323 [USAF]

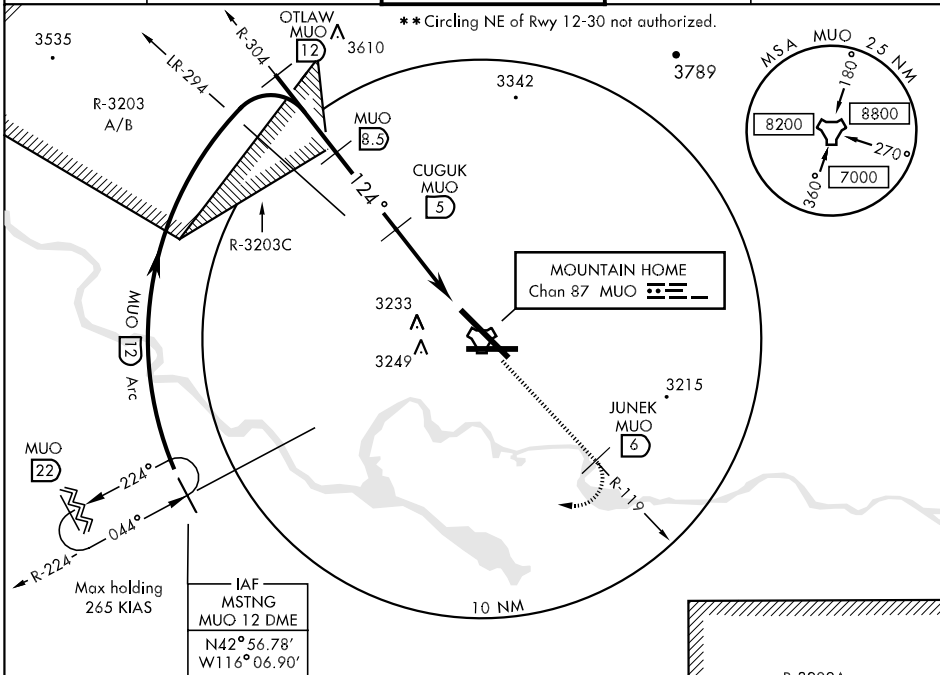
MOUNTAIN HOME AFB (KMUO)

▼ * When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1¼ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.



MISSED APPROACH: Climb to 9000 via MUO R-119 to JUNEK INT/6 DME, turn right direct MSTNG and hold.

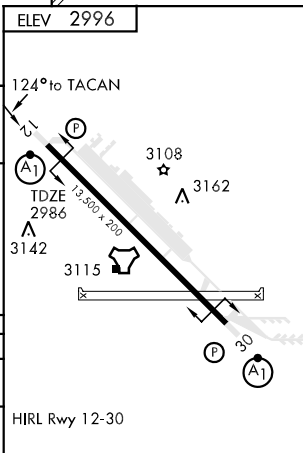
ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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NW-1, 03 JUN 2010 to 01 JUL 2010

EMERG SAFE ALT 100 NM 14,200

MSTNG R-224 12	OTLAW R-304 12	R-304 8.9	CUGUK 5	9000 R-119	MSTNG MUO R-224/12
10,000	5900	4900	4100	2.50° TCH 56	2.8
Arc 12					3.8 NM
3.8 NM					
CATEGORY	A	B	C	D	E
S-12 *	3480/40	494 (500-34)		3480/50 494 (500-1)	3480/60 494 (500-1¼)
CIRCLING **	3520-1 524 (600-1)	3520-1½ 524 (600-1½)		3560-2 564 (600-2)	



TACAN MUO Chan 87	APCH CRS 290°	Rwy Idg 13,500 TDZE 2996 Arpt Elev 2996
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AL-323 [USAF]

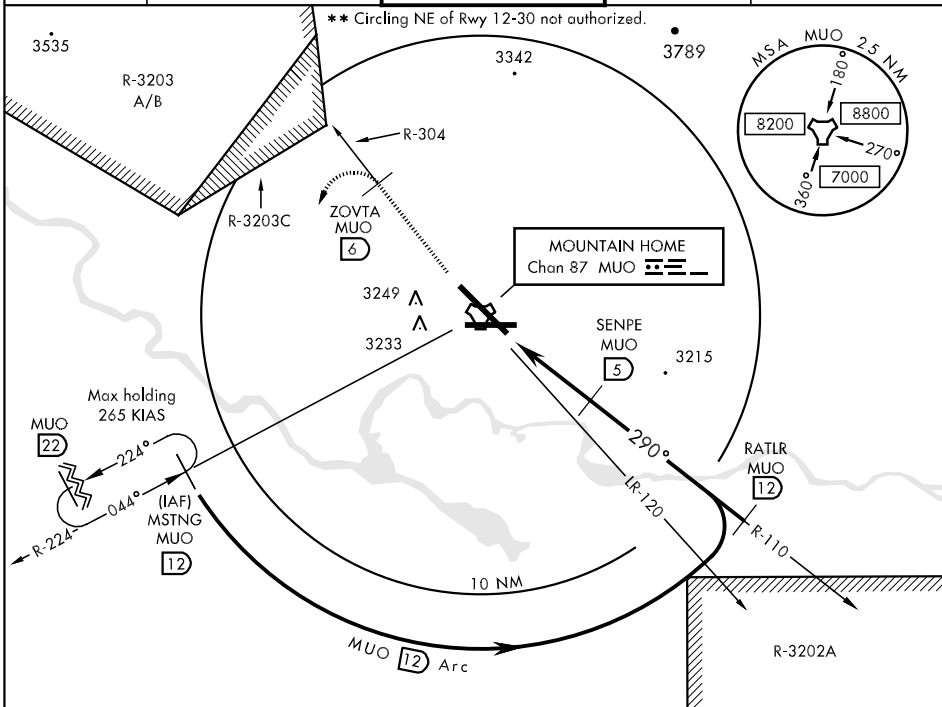
MOUNTAIN HOME AFB (KMUO)

T * When ALS inop, increase CAT AB RVR to 50 and vis to 1 mile, CAT C RVR to 60 and vis to 1¼ miles, CAT D vis to 1½ miles, CAT E vis to 1¾ miles.

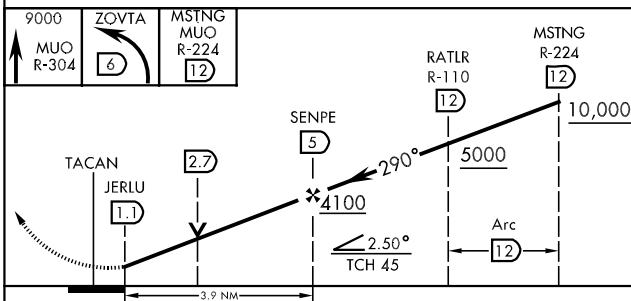


MISSED APPROACH: Climb to 9000 via MUO R-304 to ZOVRTA INT/6 DME, turn left direct MSTNG and hold.

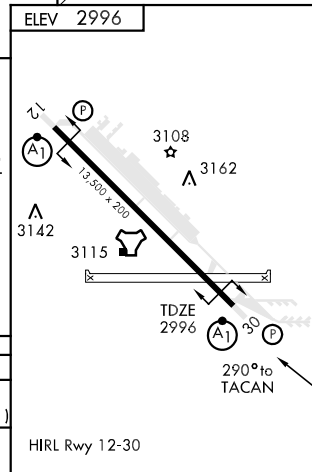
ATIS 273.5	MOUNTAIN HOME APP CON 124.8 259.1	MOUNTAIN HOME TOWER 133.85 253.5	GND CON 120.5 275.8	CLNC DEL 127.1 290.425
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EMERG SAFE ALT 100 NM 14,200

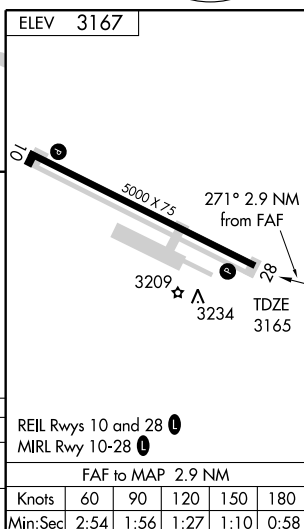
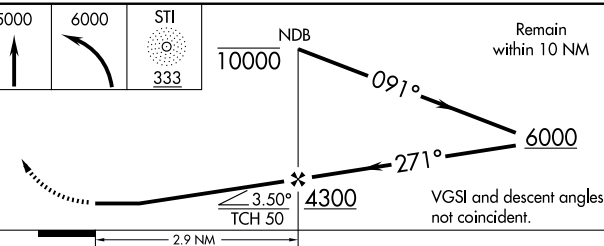
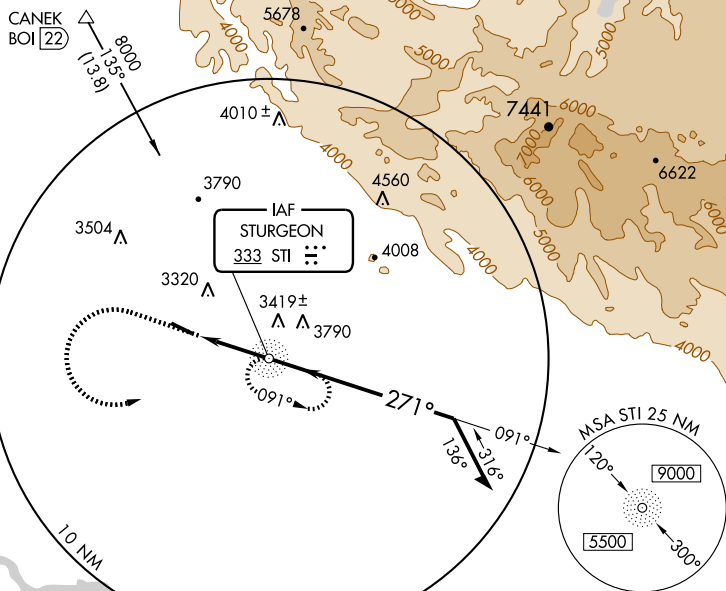


CATEGORY	A	B	C	D	E
S-30 *	3480/24 484 (500-½)		3480/40 484 (500-¾)	3480/50 484 (500-1)	3480/60 484 (500-1¼)
CIRCLING**	3520-1 524 (600-1)		3520-1½ 524 (600-1½)	3560-2 564 (600-2)	



MOUNTAIN HOME MUNI (U76)

MISSED APPROACH: Climb to 5000 then climbing left turn to 6000 direct STI NDB and hold.

UNICOM
122.8 (CTAF) **L**

NW-1. 03 JUN 2010 to 01 JUL 2010

WAAS CH 42815 W28A	APP CRS 280°	Rwy Idg TDZE Apt Elev	5000 3165 3167
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RNAV (GPS) RWY 28

MOUNTAIN HOME MUNI (U76)

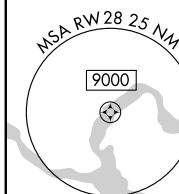
Circling to Rwy 10 NA at night. Baro-VNAV NA. DME/DME RNP-0.3 NA.
 Visibility reduction by helicopters NA. Use Mountain Home AFB altimeter setting, when not received procedure NA.

MISSED APPROACH: Climb to 7900 direct APOBE and via track 320° to ATETY and hold, continue climb-in-hold to 7900.

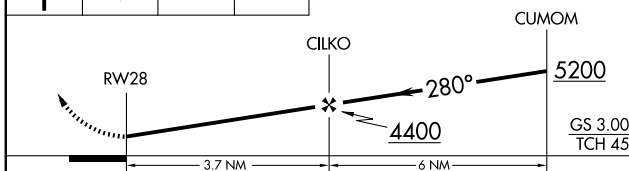
MOUNTAIN HOME APP CON ★
124.8 259.1

UNICOM
122.8 (CTAF) 0

MISSED APCH FIX

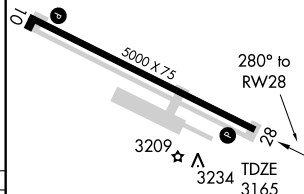


7900 ↑	APOBE ★	trk 320°	ATETY △	VGSI and RNAV glidepath not coincident.	Procedure Turn NA
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CATEGORY	A	B	C	D
LPV DA	3458-1 293 (300-1)			
LNAV/VNAV DA	3566-1½ 401 (400-1½)			
LNAV MDA	3580-1 415 (500-1)	3580-1¼ 415 (500-1¼)		
CIRCLING	3700-1 533 (600-1)	3720-1 553 (600-1)	3820-1¾ 653 (700-1¾)	3840-2¼ 673 (700-2¼)


ELEV 3167

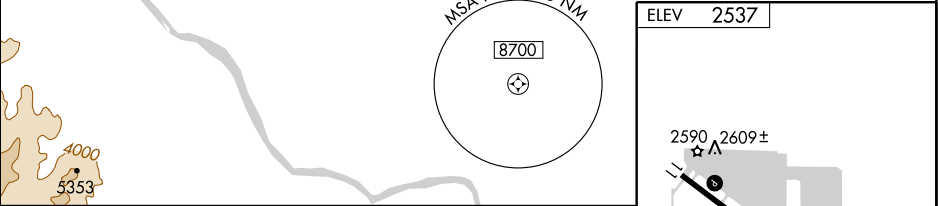
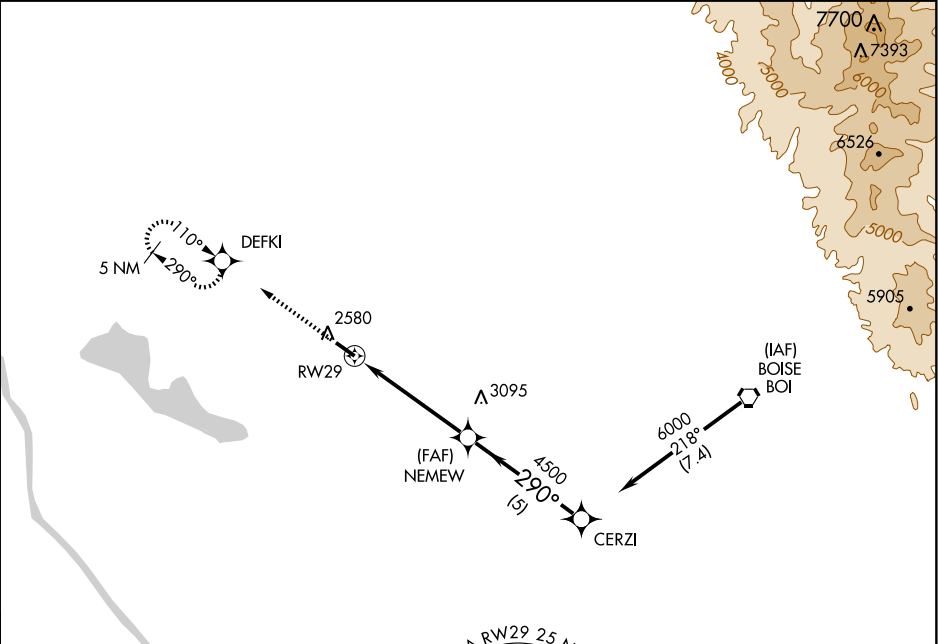


REIL Rwy 10 and 28 0
MIRL Rwy 10-28 0

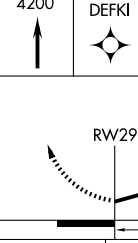
APP CRS	Rwy Idg	N/A
290°	TDZE	N/A
	Apt Elev	2537

  NA	Use Caldwell altimeter setting.	MISSED APPROACH: Climb to 4200 direct DEFKI WP and hold.
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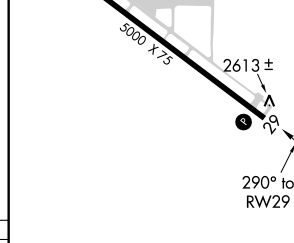
AWOS-3 118.325	BOISE APP CON 119.6 269.4	UNICOM 122.7 (CTAF) 
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CATEGORY		A	B	C	D
CIRCLING		3040-1	503 (600-1)	3040-1½ 503 (600-1½)	3100-2 563 (600-2)



Procedure Turn NA



MIRL Rwy 11-29

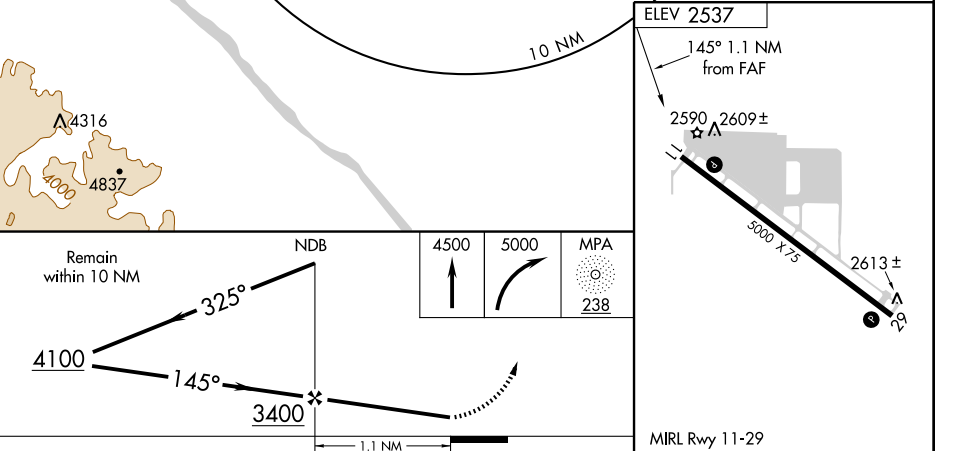
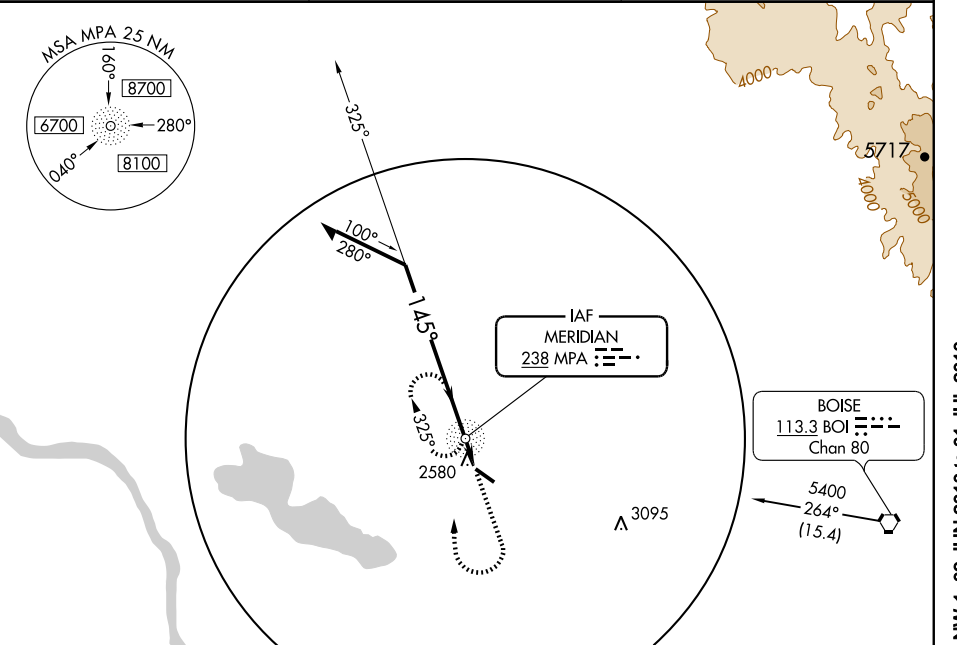
▼

Use Caldwell altimeter setting; if not received use Boise altimeter setting and increase all MDAs 80 feet.

▲NA

MISSED APPROACH: Climb to 4500 then climbing right turn to 5000 direct MPA NDB and hold.

AWOS-3 118.325	BOISE APP CON 119.6 269.4	UNICOM 122.7 (CTAF) 0
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CATEGORY	A	B	C	D	FAF to MAP 1.1 NM					
CIRCLING	3040-1	503 (600-1)	3040-1½ 503 (600-1½)	3100-2 563 (600-2)	Knots	60	90	120	150	180
					Min:Sec	1:06	0:44	0:33	0:26	0:22

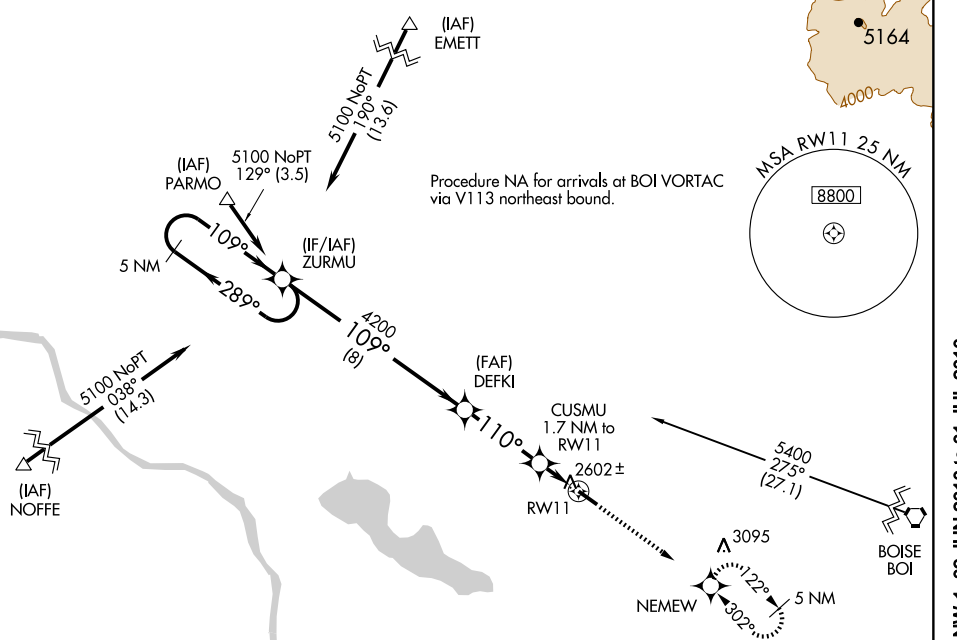
Baro-VNAV NA.
Use Caldwell Industrial altimeter setting; if not received, use Boise Air
Terminal/Gowen Fld altimeter setting and increase all DAs/MDAs 60 feet.
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4800 direct
NEMEW and hold, continue climb-in-hold
to 4800.

AWOS-3
118.325

BOISE APP CON
119.6 269.4

UNICOM
122.7 (CTAF) 0



ELEV 2537

110° to RWY 11

2590, 2609 ±

TDZE 2537

5000 x 75

2613 ±

MIRL Rwy 11-29

5 NM Holding Pattern

ZURMU

DEFKI

CUSMU 1.7 NM to RWY 11

RWY 11

4800

NEMEW

GS 3.00° TCH 40

5100

289°

109°

109°

110°

3120

8 NM

3.3 NM

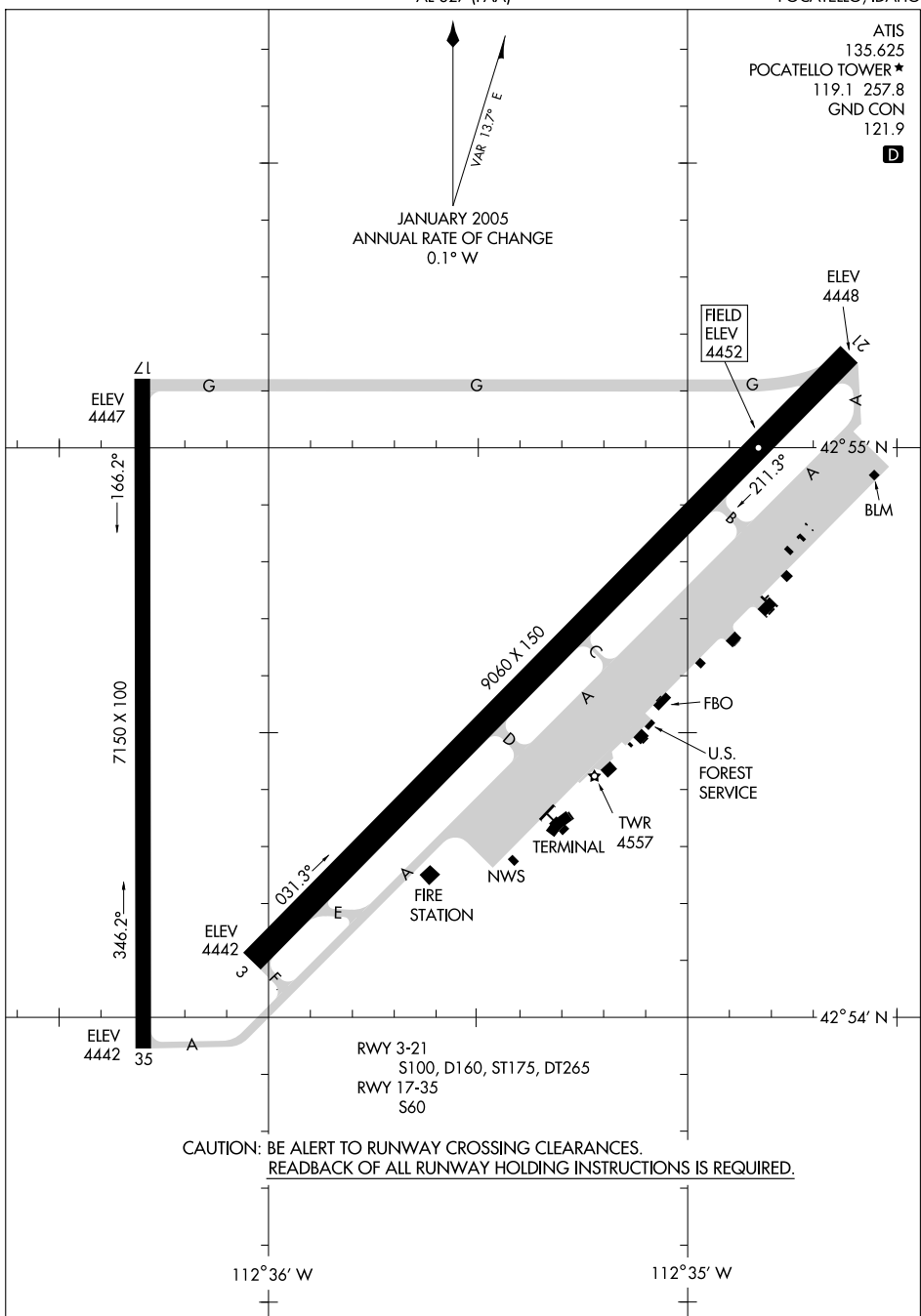
1.7 NM

CATEGORY	A	B	C	D
LPV DA	2844-1		307 (400-1)	
LNAV/DA	2881-1¼		344 (400-1¼)	
LNAV MDA	2900-1 363 (400-1)		2900-1¼ 363 (400-1¼)	
CIRCLING	3040-1 503 (600-1)		3040-1½ 503 (600-1½) 3100-2 563 (600-2)	

NW-1. 03 JUN 2010 to 01 JUL 2010

AIRPORT DIAGRAM

POCATELLO RGNL (PIH)
POCATELLO, IDAHO



NW-1, 03 JUN 2010 to 01 JUL 2010

AL-327 (FAA)

ILS or LOC RWY 21
POCATELLO RGNL (PIH)

MALSR

MISSED APPROACH: Climb to 7400 direct PIH VORTAC, continue climb via PIH VORTAC R-269, then right turn direct PIH VORTAC and hold (TACAN aircraft continue via PIH VORTAC R-269 to SICOY/ PIH 10 DME and hold W, right turns, 089° inbound).

SALT LAKE CENTER
128.35 239.25

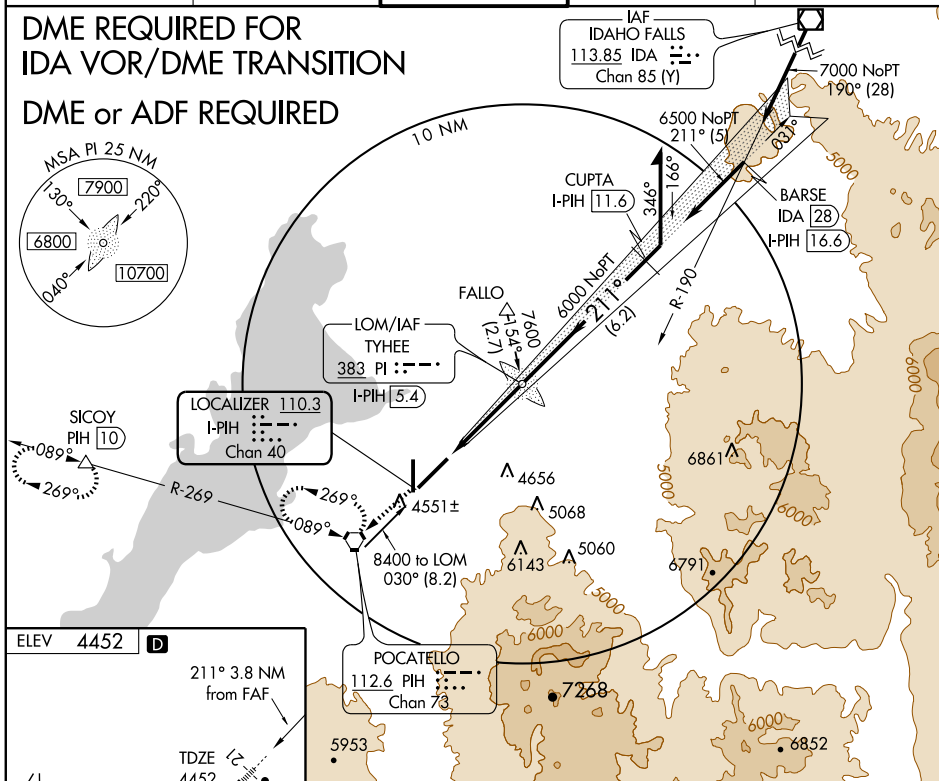
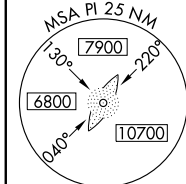
POCATELLO TOWER★
119.1 (CTAF) 257.8

GND CON
121.9

UNICOM
122.95

DME REQUIRED FOR IDA VOR/DME TRANSITION

DME or ADF REQUIRED



ELEV 4452

211° 3.8 NM from FAF

TDZE 4452

9060 X 150

71.50 X 100

35

REIL Rwy 17

HIRL Rwy 3-21

MIRL Rwy 17-35

7400
↑
PIH
112.6

↑
PIH
R-269

PIH
112.6

TYHEE LOM*
I-PIH 5.4

Remain within 10 NM

037°

5715

211°

7600

6000

GS 3.00°
TCH 56

Use I-PIH DME when on LOC course.

3.8 NM

I-PIH 1.6

* Procedure turn not authorized for Cat. E aircraft.

CATEGORY	A	B	C	D	E
S-ILS 21	** 4652/24 200 (200-½)				
S-LOC 21	4740/24	288 (300-½)		4740/40	288 (300-¾)
CIRCLING	4820-1 368 (400-1)	4920-1 468 (500-1)	4920-1½ 468 (500-1½)	5020-2	568 (600-2)

NW-1. 03 JUN 2010 to 01 JUL 2010

KNURL ONE DEPARTURE (OBSTACLE)

BOISE RADIO

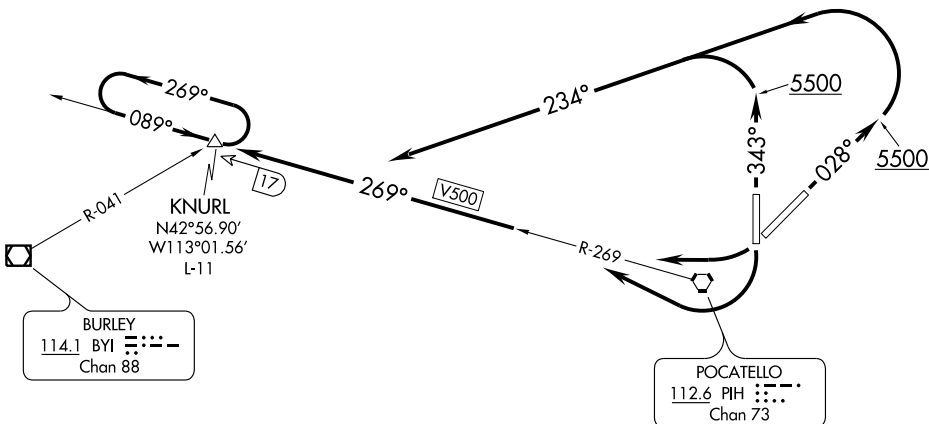
122.6

POCATELLO TOWER ★

119.1 (CTAF) 257.8

SALT LAKE CENTER

128.35 239.25

TAKE-OFF MINIMUMS

Rwy 3, 21, 35: Standard.

Rwy 17, 400-2 or standard with minimum climb of 270' per NM to 4900.

TAKE-OFF OBSTACLE NOTES

Rwy 3, Trees beginning 3353' from DER, 735' left of centerline, up to 100' AGL/4549' MSL.

Rod on obstruction light 978' from DER, 759' right of centerline, 39' AGL/4486' MSL.

Rwy 17, Transmission tower 1.1 NM from DER, 2395' left of centerline, 252' AGL/4693' MSL.

Trees beginning 1.6 NM from DER, 2642' left of centerline, up to 100' AGL/4759' MSL.

Fence 112' from DER, 416' right of centerline, 12' AGL/4453' MSL.

Bush 30' from DER, 261' right of centerline, 3' AGL/4445' MSL.

Fence 208' from DER, 421' right of centerline, 13' AGL/4449' MSL.

Rwy 21, Antenna 453' from DER, 309' left of centerline, 20' AGL/4466' MSL.

Light on localizer, 543' from DER, 286' left of centerline, 20' AGL/4462' MSL.

Rwy 35, Electrical equipment 197' from DER, 248' left of centerline, 7' AGL/4454' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Climb heading 028° to 5500, then climbing left turn to 7500 via heading 234° and PIH R-269 to KNURL INT, thence

TAKE-OFF RUNWAY 35: Climb heading 343° to 5500, then climbing left turn to 7500 via heading 234° and PIH R-269 to KNURL INT, thence

TAKE-OFF RUNWAY 17: Climbing right turn to 7500 via PIH R-269 to KNURL INT, thence

TAKE-OFF RUNWAY 21: Climbing right turn to 7500 via PIH R-269 to KNURL INT, thence

. . . . via assigned route expect filed altitude 10 minutes after departure.

WAAS CH 97502 W03A	APP CRS 031°	Rwy Idg TDZE 4444 Apt Elev 4452
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RNAV (GPS) RWY 3
POCATELLO RGNL (PIH)

⚠ Inoperative table does not apply.

⚠ DME/DME RNP- 0.3 NA.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (9°F) or above 40°C (104°F). If local altimeter setting not received, use Idaho Falls Rgnl altimeter setting and increase all DAs/MDAs 140 feet.

Baro-VNAV NA when using Idaho Falls Rgnl altimeter setting.

Circling NA southeast of Rwy 3-21.

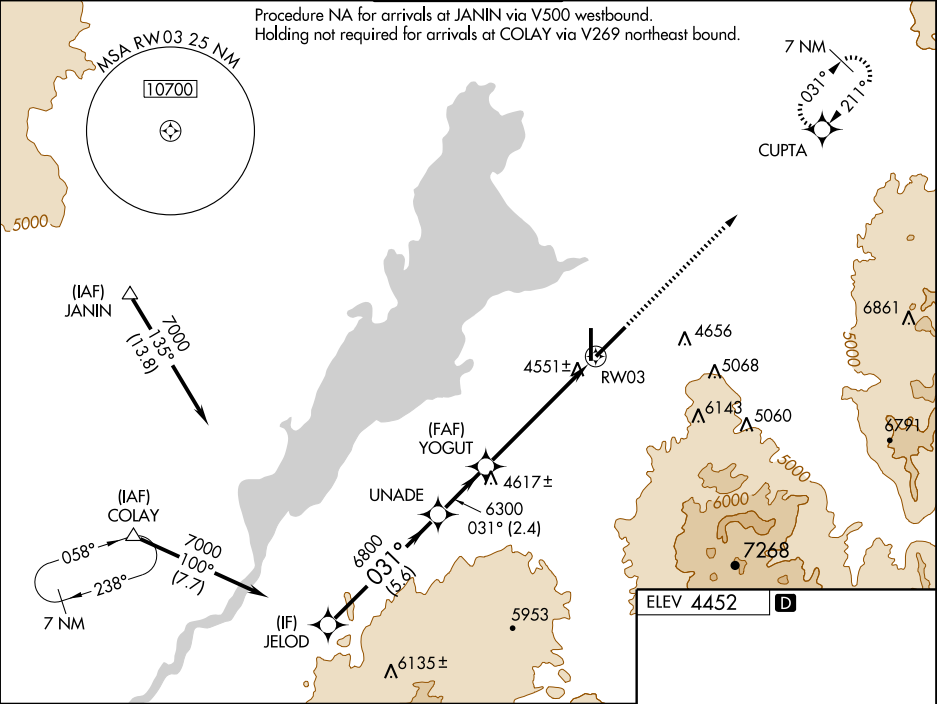
Visibility reduction by helicopters NA.

ODALS

MISSED APPROACH:

Climb to 7300 direct CUPTA and hold.

ATIS 135.625	SALT LAKE CENTER 128.35 239.25	POCATELLO TOWER★ 119.1 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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JELOD		UNADE		YOGUT		RWY 03	
7000		6800		6300		7300	
Procedure Turn NA		031°		031°		031°	
GS 3.00°		5.6 NM		2.4 NM		5.6 NM	
TCH 53		A		B		C	
CATEGORY		4694-1		250 (300-1)			
LPV DA		4694-1		250 (300-1)			
LNAV/VNAV DA		4978-1¾		534 (600-1¾)			
LNAV MDA		4880-1 436 (500-1)		4880-1¼ 436 (500-1¼)		4880-1½ 436 (500-1½)	
CIRCLING		4980-1 528 (600-1)		4980-1½ 528 (600-1½)		5020-2 568 (600-2)	

7150 X 100

9060 X 150

TDZE 4444

031° to RWY 03

REIL Rwy 17

HIRL Rwy 3-21

MIRL Rwy 17-35

WAAS CH 78212 W21A	APP CRS 211°	Rwy Idg TDZE Apt Elev	9060 4452 4452
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RNAV (GPS) RWY 21

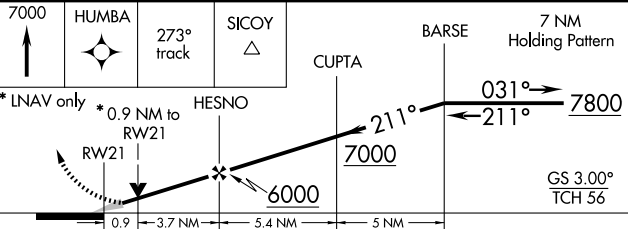
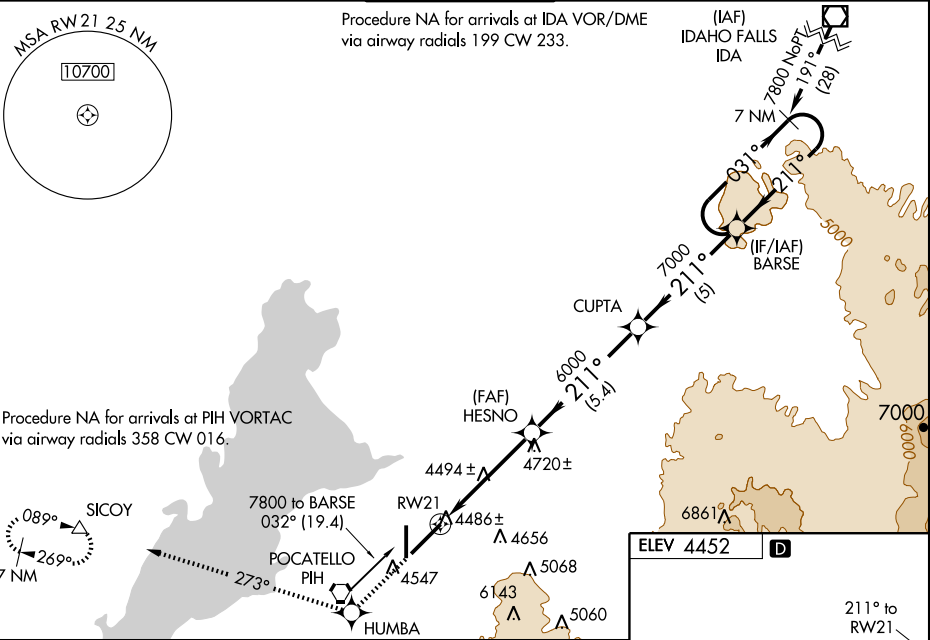
POCATELLO RGNL (PIH)

⚠ Inoperative table does not apply to LNAV Cat D. For inoperative MALSR when using Idaho Falls altimeter setting, increase LPV all Cats visibility to 1 1/4 mile.
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 39°C (102°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Idaho Falls altimeter setting and increase all DA and MDA 140 feet; increase LPV all Cats, LNAV Cat C, and Circling Cat C and D visibility 1/2 mile, increase LNAV/VNAV all Cats visibility 1/2 mile.
Baro-VNAV and VDP NA when using Idaho Falls altimeter setting.
Circling NA southeast of Rwy 3-21. Circling NA at night to Rwy 17-35.

MALSR

MISSED APPROACH:
Climb to 7000 direct HUMBA and via 273° track to SICOY and hold.

ATIS 135.625	SALT LAKE CENTER 128.35 239.25	POCATELLO TOWER★ 119.1 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA		4652/24	200 (200-1/2)	
LNAV/VNAV DA		4797/40	345 (400-3/4)	
LNAV MDA		4780/24	328 (400-1/2)	4780/50 328 (400-1)
CIRCLING	4820-1 368 (400-1)	4920-1 468 (500-1)	4920-1 1/2 468 (500-1 1/2)	5020-2 568 (600-2)

ELEV 4452 **D**

REIL Rwy 17
HIRL Rwy 3-21
MIRL Rwy 17-35

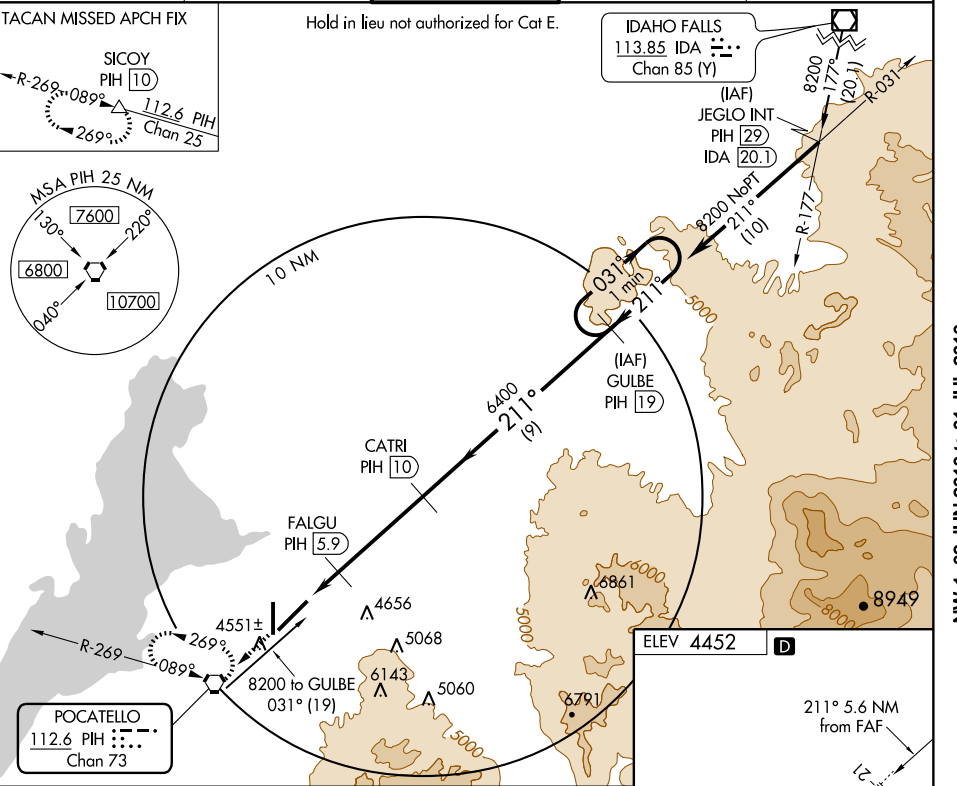
V

Circling NA Southeast of Rwy 3-21.
For inoperative MALSR increase S-21 Cat. D
and E visibility to 1¼.

MALSR

MISSED APPROACH: Climb to 7400 direct PIH VORTAC, continue climb via PIH VORTAC R-269, then right turn direct PIH VORTAC and hold (TACAN aircraft continue via PIH VORTAC R-269 to SICOY/PIH 10 DME and hold W, right turns, 089° inbound).

ATIS 135.625	SALT LAKE CENTER 128.35 239.25	POCATELLO TOWER★ 119.1 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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7400 PIH 112.6 PIH R-269

GULBE PIH 19

One Minute Holding Pattern

RW21 PIH 4.4

FALGU PIH 5.9

CATRI PIH 10

5020

6400

8200

031° 211°

211°

031°

8200

5020

1.5

4.1 NM

9 NM

VGSI and descent angles not coincident.

CATEGORY	A	B	C	D	E
S-21	4840/24	388 (400-½)		4840/50	388 (400-1)
CIRCLING	4840-1 388 (400-1)	4920-1 468 (500-1)	4920-1½ 468 (500-1½)	5020-2	568 (600-2)

ELEV 4452 D

211° 5.6 NM from FAF

7150 X 100

TDZE 4452

9060 X 150

TWR 4557

35

35

REIL Rwy 17

HIRL Rwy 3-21

MIRL Rwy 17-35

NW-1. 03 JUN 2010 to 01 JUL 2010

VORTAC PIH 112.6 Chan 73	APP CRS 033°	Rwy Idg TDZE Apt Elev 9060 4444 4452
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VOR or TACAN RWY 3

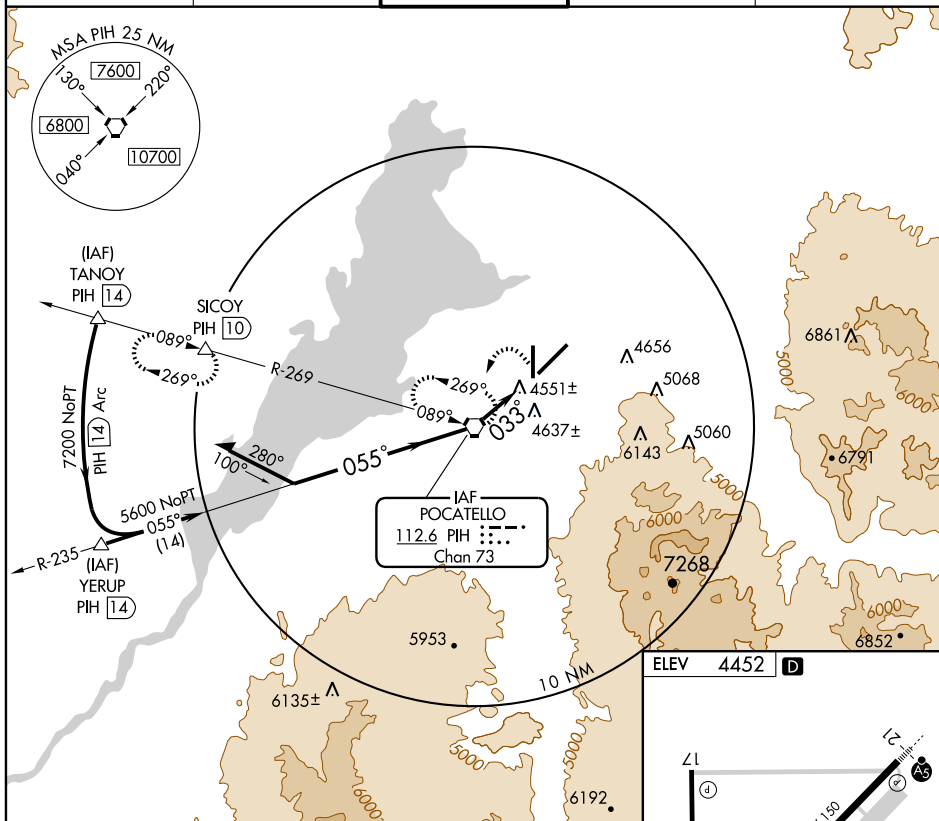
POCATELLO RGNL (PIH)

▼ Circling not authorized Southeast of Rwy 3-21.
Inoperative table does not apply.

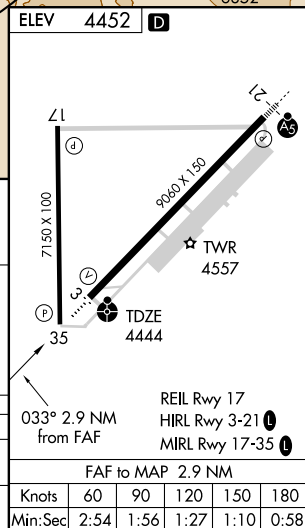


MISSED APPROACH: Climbing left turn direct PIH VORTAC, continue to 7400 via PIH VORTAC R-269, then right turn direct PIH VORTAC and hold (TACAN aircraft continue via R-269 to SICOY/PIH 10 DME and hold W, right turns, 089° inbound).

ATIS 135.625	SALT LAKE CENTER 128.35 239.25	POCATELLO TOWER* 119.1 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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<p>Remain within 10 NM</p> <p>7200 → 235° → VORTAC</p> <p>5600 → 055° → VORTAC</p> <p>VGS1 and descent angles not coincident.</p> <p>3.53° TCH 53</p> <p>033°</p> <p>2.9 NM</p>				
CATEGORY	A	B	C	D
S-3	4940-1 496 (500-1)			NA
CIRCLING	4940-1 488 (500-1)		4940-1½ 488 (500-1½)	NA



APP CRS	Rwy Idg	3900
351°	TDZE	4858
	Apt Elev	4858

RNAV (GPS) RWY 35

REXBURG-MADISON COUNTY (R.XE)

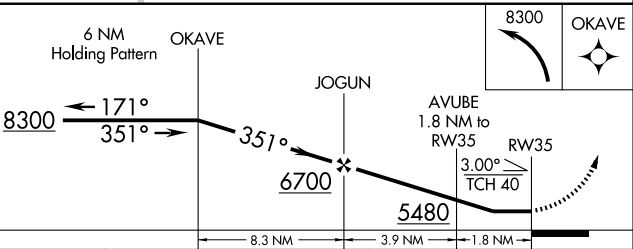
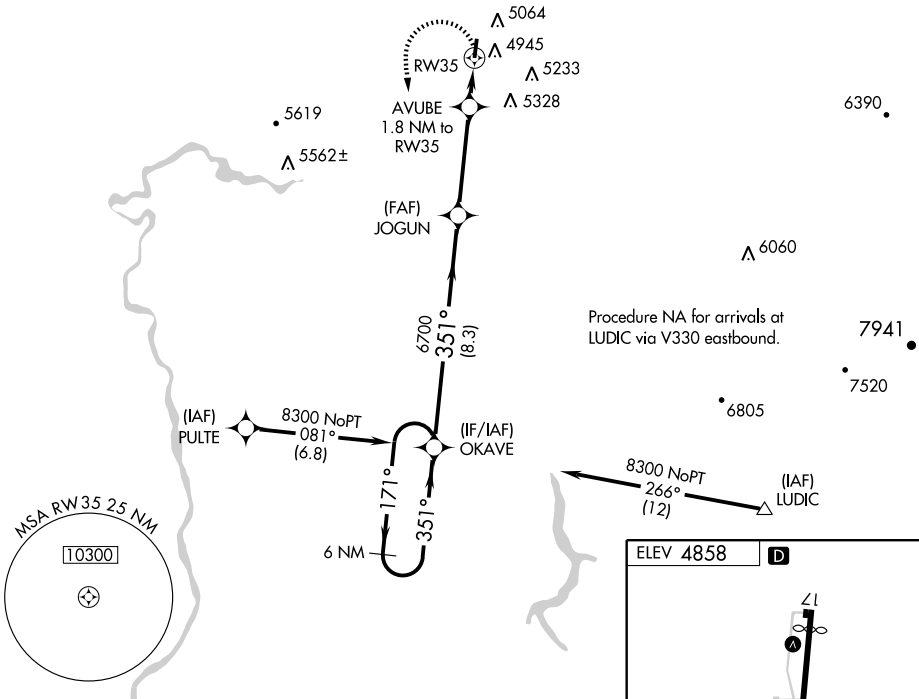
▽ If local altimeter setting not received, use Idaho Falls
△ Rgnl altimeter setting and increase all MDAs 80 feet.
When VGSI inoperative, procedure NA at night.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing left turn
to 8300 direct OKAVE and hold.

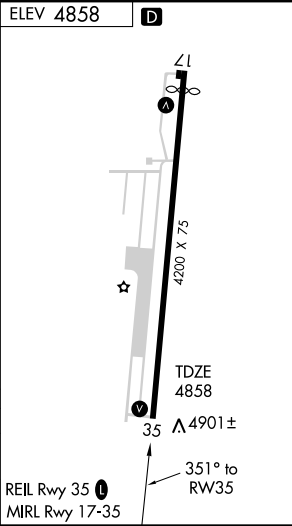
ASOS
135.075

SALT LAKE CENTER
128.35 239.25

UNICOM
122.8 (CTAF) **0**



CATEGORY	A	B	C	D
RNAV MDA	5260-1	402 (500-1)	5260-1¼	402 (500-1¼)
CIRCLING	5380-1 522 (600-1)	5580-1 722 (800-1)	5580-2 722 (800-2)	5620-2½ 762 (800-2½)

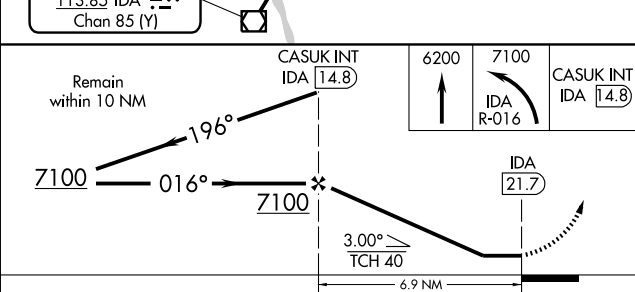
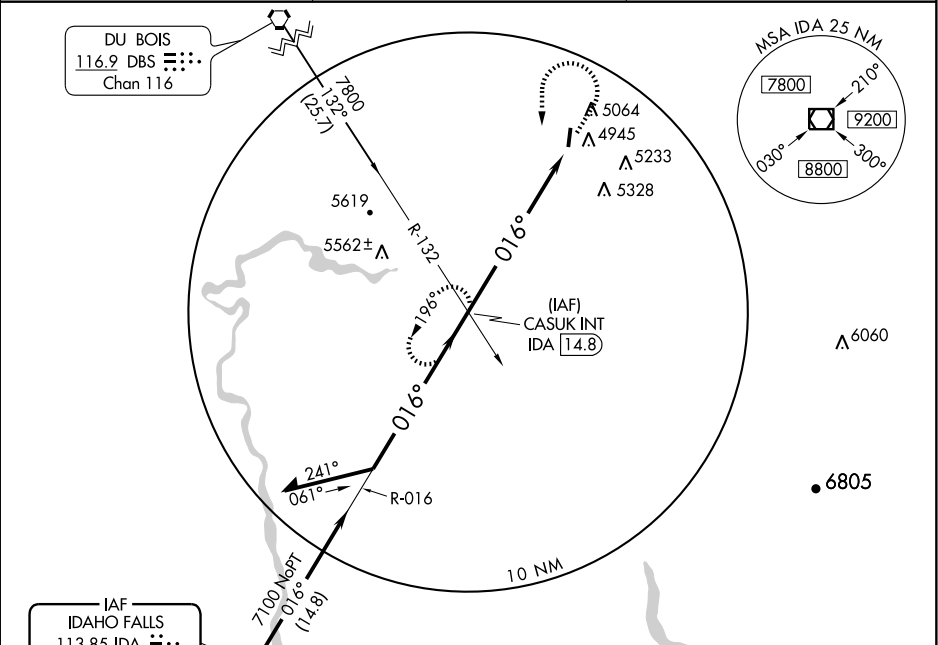


VOR/DME IDA 113.85 Chan 85 (Y)	APP CRS 016°	Rwy Idg TDZE Apt Elev 3900 4858 4858
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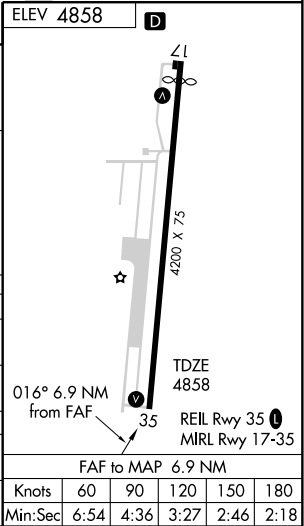
VOR RWY 35
REXBURG-MADISON COUNTY (R.XE)

NA If local altimeter setting not received, use Idaho Falls Rgnl altimeter setting minima.	MISSED APPROACH: Climb to 6200 then climbing left turn to 7100 via IDA R-016 to CASUK Int/IDA 14.8 DME and hold.
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ASOS 135.075	SALT LAKE CENTER 128.35 239.25	UNICOM 122.8 (CTAF) 0
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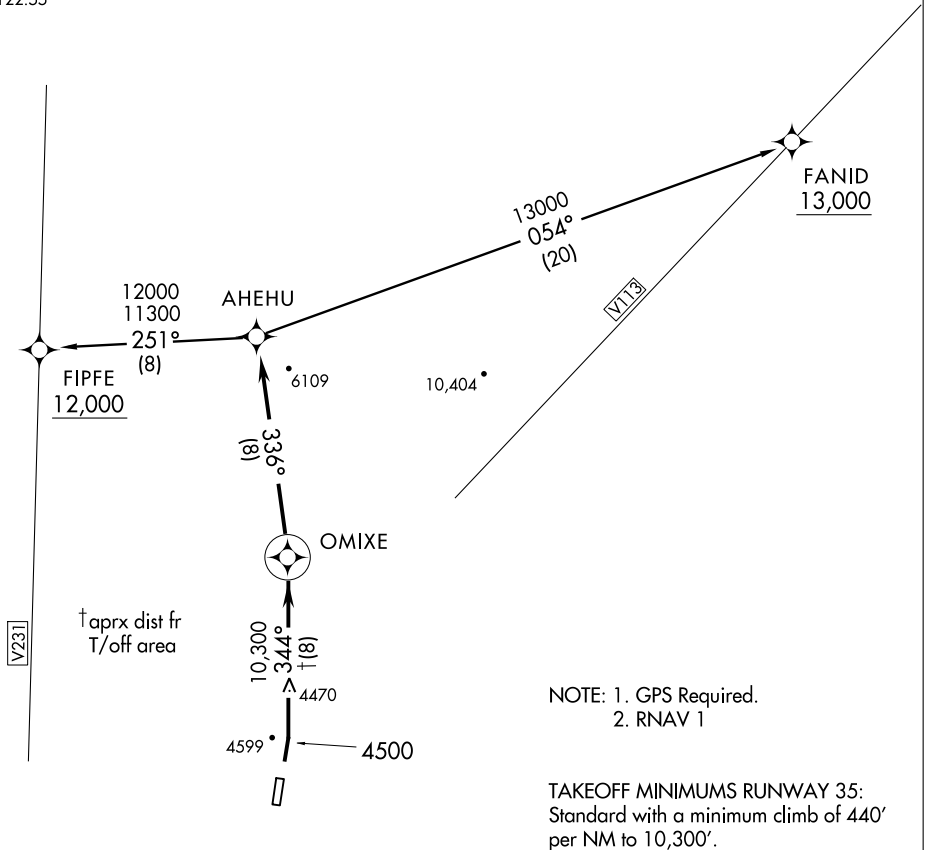


CATEGORY	A	B	C	D
S-35	5640-1 782 (800-1)	5640-1¼ 782 (800-1¼)	5640-2¼ 782 (800-2¼)	5640-2½ 782 (800-2½)
CIRCLING	5640-1 782 (800-1)	5640-1¼ 782 (800-1¼)	5640-2¼ 782 (800-2¼)	5660-2½ 802 (900-2½)
IDAHO FALLS RGNL ALTIMETER SETTING MINIMUMS				
S-35	5820-1¼ 962 (1000-1¼)	5820-1½ 962 (1000-1½)	5820-3	962 (1000-3)
CIRCLING	5820-1¼ 962 (1000-1¼)	5820-1½ 962 (1000-1½)	5820-3	962 (1000-3)



AHEHU ONE DEPARTURE (RNAV)

SALT LAKE CENTER
132.4 338.3
BOISE RADIO
122.55



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 17: NA.

TAKE-OFF RUNWAY 35: Climb runway heading to 4500', then climbing left turn to 10,300' via 344° course to OMIXE WP, then via 336° course to AHEHU WP.
Thence

FANID TRANSITION (AHEHU1.FANID):

FIPFE TRANSITION (AHEHU1.FIPFE):

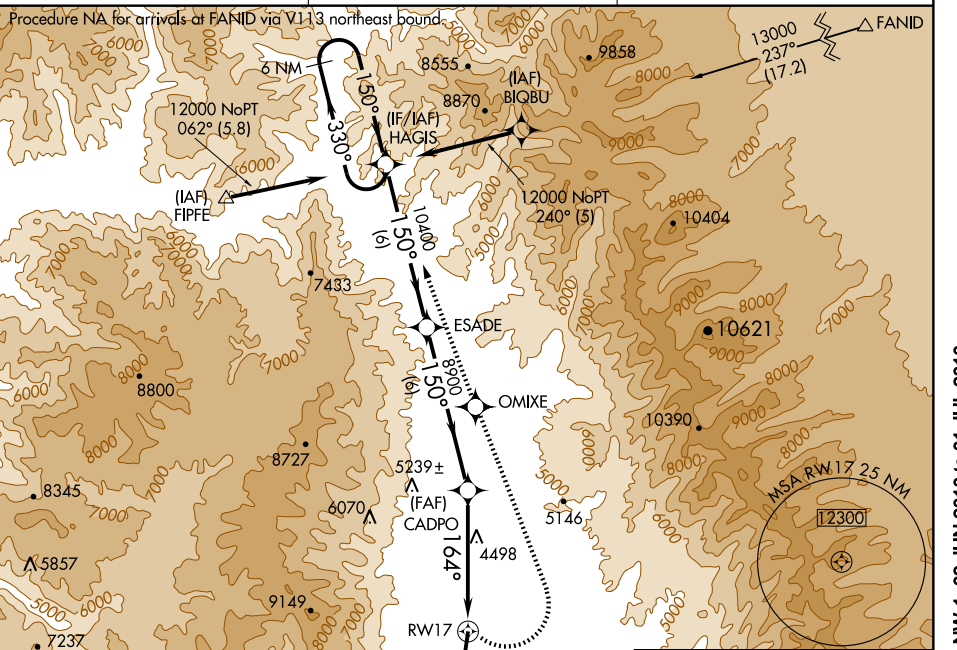
▼

▲NA

DME/DME RNP -0.3 NA.

MISSED APPROACH: Climbing left turn to 12000 direct OMIXE and via 324° track to HAGIS and hold. Continue climb-in-hold to 12000.

AWOS-3 135.075	SALT LAKE CENTER 132.4 338.3	UNICOM 122.8 (CTAF) 0
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ELEV 4043

164° to RW17

31.50 X 60

35

REIL Rwy 17 0

MIRL Rwy 17-35 0

6 NM Holding Pattern

HAGIS

12000

330°

150°

ESAD

10400

CADPO

9.00° TCH 55

RW17

8900

164°

VGSI and descent angles not coincident.

CATEGORY	A	B	C	D
CIRCLING	7400-1¼ 3357 (3400-1¼)	7400-1½ 3357 (3400-1½)	NA	

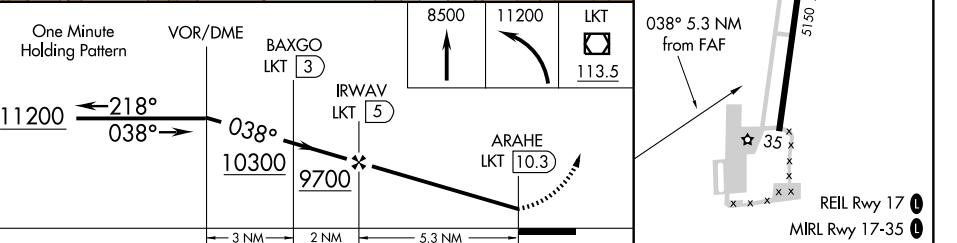
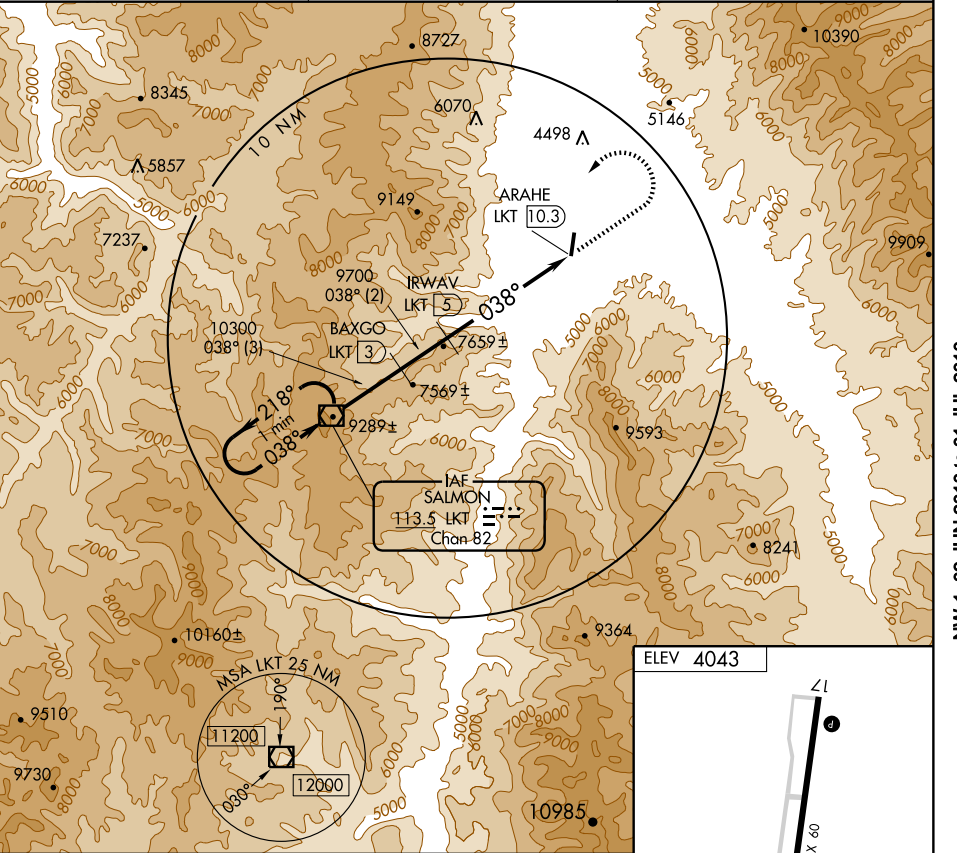
NW-1, 03 JUN 2010 to 01 JUL 2010

▼

▲NA

MISSED APPROACH: Climb to 8500 then climbing left turn to 11200 direct LKT VOR/DME and hold.

AWOS-3 135.075	SALT LAKE CENTER 132.4 338.3	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D	Knots	60	90	120	150	180
CIRCLING	8000-1¼ 3957 (4000-1¼)	8000-1½ 3957 (4000-1½)	8000-3 3957 (4000-3)	NA	Min:Sec					

LOC/DME I-RPO <u>109.1</u> Chn 28	APP CRS 014°	Rwy Idg TDZE Apt Elev	N/A N/A 2131
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LOC/DME-A
SANDPOINT (SZT)

T
A NA Circling not authorized west of Rwy 1-19.

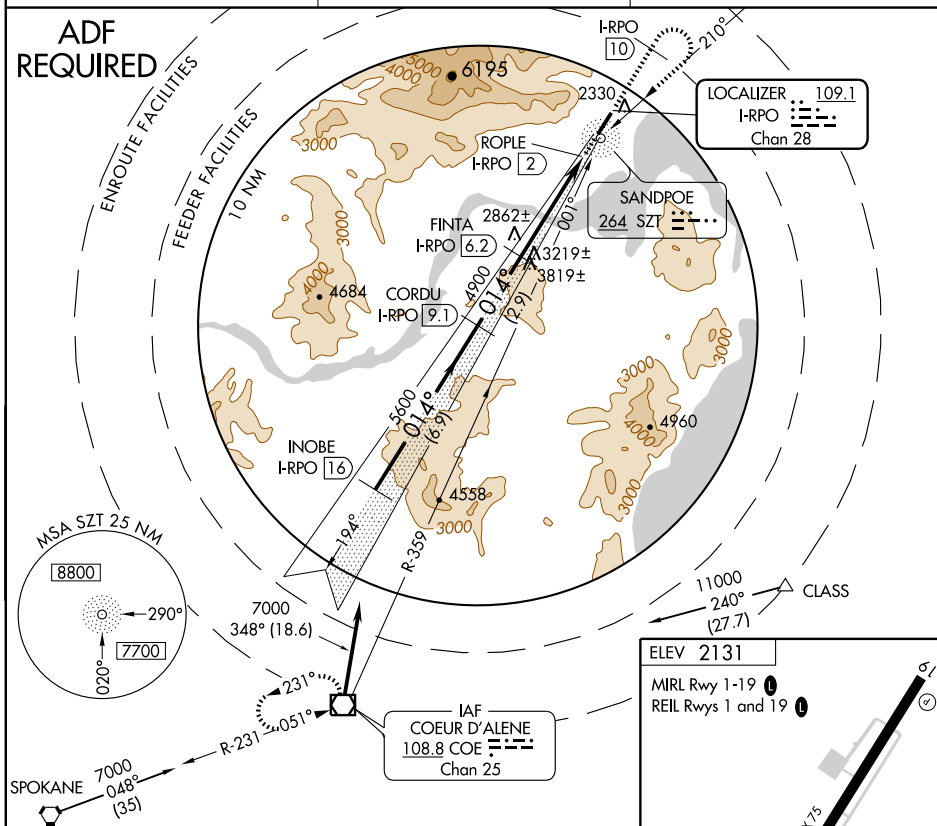
MISSED APPROACH: Climb to 8000 via heading 014° to I-RPO 10 DME, then climbing right turn via SZT bearing 030° to SZT NDB, cross SZT NDB at 8000, then via SZT bearing 181° and COE R-359 to COE VOR/DME and hold.

AWOS-3
135.425

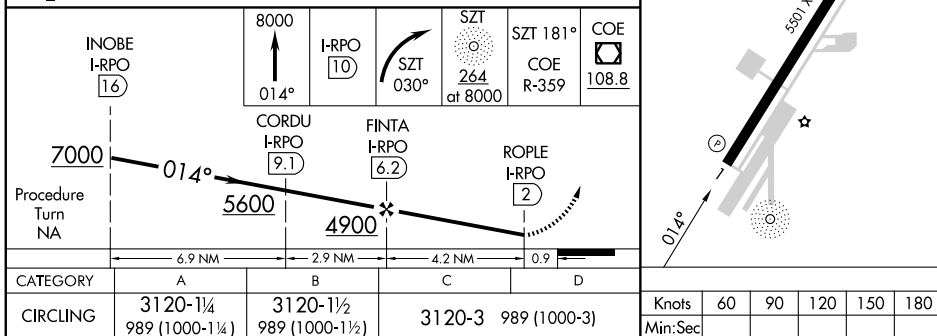
SEATTLE CENTER
123.95 282.3

UNICOM
122.7 (CTAF) **L**

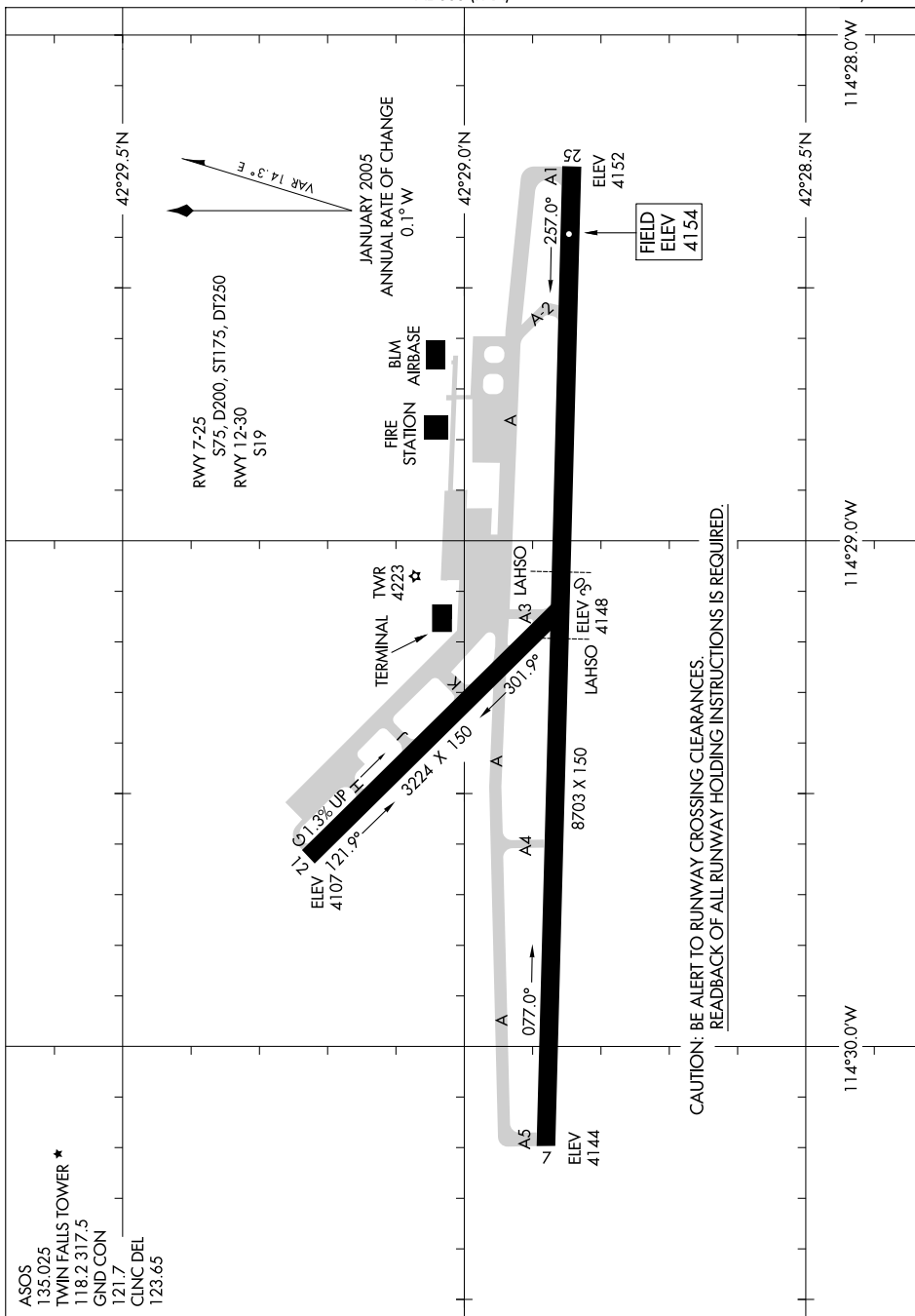
ADF
REQUIRED



NW-1. 03 JUN 2010 to 01 JUL 2010



AIRPORT DIAGRAM

TWIN FALLS/JOSLIN FIELD-MAGIC VALLEY RGNL (TWF)
AL-885 (FAA) TWIN FALLS, IDAHO

NW-1, 03 JUN 2010 to 01 JUL 2010

TWIN FALLS/JOSLIN FIELD-MAGIC VALLEY RGNL (TWF)

MISSED APPROACH: Climb to 4600 then climbing right turn to 7000 via heading 020° and TWF VORTAC R-349 to TOXEE INT/TWF 13 DME and hold.

UNICOM
122 95

FAF to MAP 5.2 NM

Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

CATEGORY	A	B	C	D	E
S-LS 25	4354- $\frac{1}{2}$ 200 (200- $\frac{1}{2}$)				
S-LOC 25	4480- $\frac{1}{2}$ 326 (400- $\frac{1}{2}$)			4480- $\frac{3}{4}$ 326 (400- $\frac{3}{4}$)	
CIRCLING	4680-1 526 (600-1)	4700-1 $\frac{1}{2}$ 546 (600-1 $\frac{1}{2}$)	4780-2 626 (700-2)	5020-3 866 (900-3)	

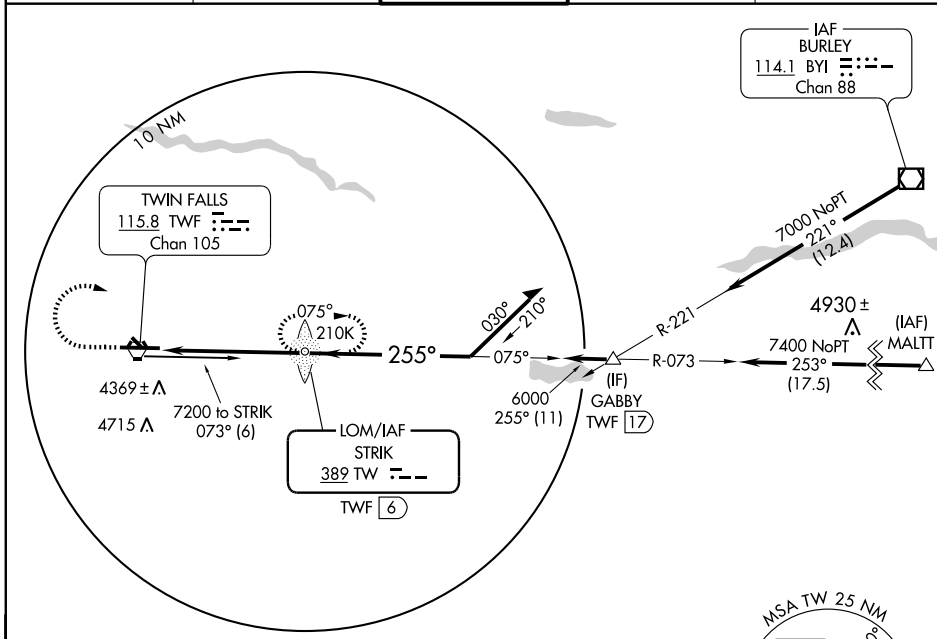
LOM TW 389	APP CRS 255°	Rwy Idg TDZE Apt Elev	8703 4154 4154
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▼ When local altimeter setting not received, use Jerome altimeter setting and increase all MDA 60 feet and Circling Cats C and D visibility ¼ mile.

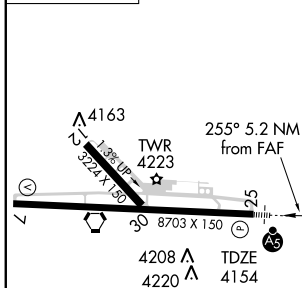


MISSED APPROACH: Climb to 4800 then climbing right turn to 6000 direct STRIK LOM and hold.

ASOS 135.025	TWIN FALLS APP CON ★ 126.7 353.75	TWIN FALLS TOWER ★ 118.2 (CTAF) 0 317.5	GND CON 121.7	UNICOM 122.95
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ELEV 4154



REIL Rwy 7
HIRL Rwy 7-25

FAF to MAP 5.2 NM					
Knots	60	90	120	150	180
Min:Sec	5:12	3:28	2:36	2:05	1:44

CATEGORY	A		B		C		D	
	S-25		4680- $\frac{3}{4}$ 526 (600- $\frac{3}{4}$)		4680-1 526 (600-1)		4680-1½ 526 (600-1½)	
CIRCLING	4680-1 526 (600-1)		4720-1 566 (600-1)		4740-1½ 586 (600-1½)		4800-2 646 (700-2)	

WAAS CH 40211 W07A	APP CRS 075°	Rwy Idg TDZE Apt Elev	8703 4149 4154
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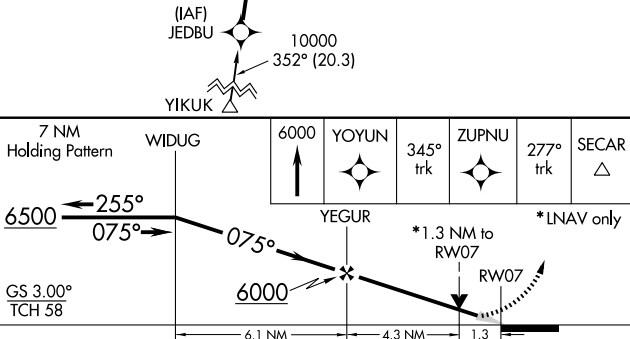
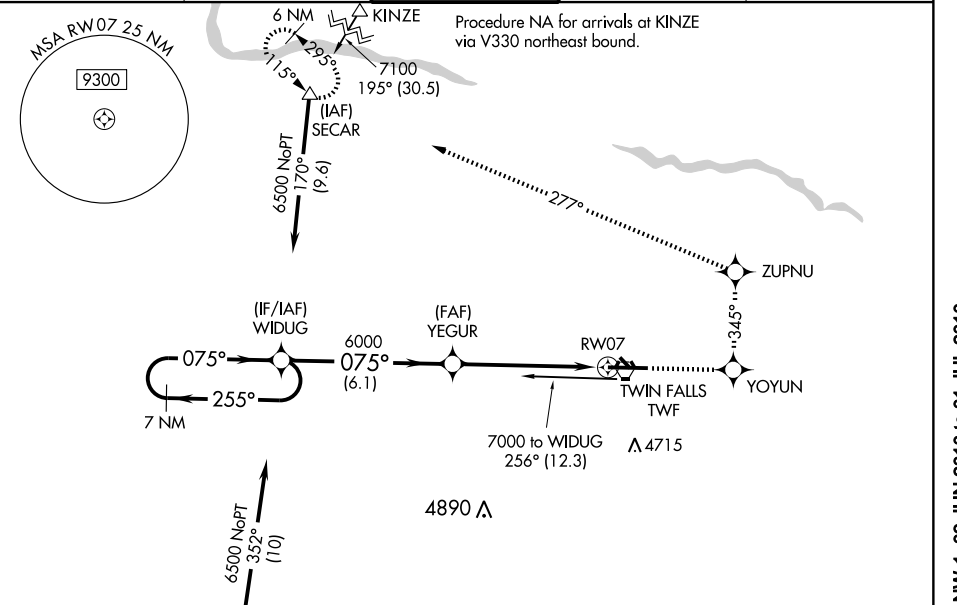
Baro-VNAV NA when using Jerome altimeter setting.

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -23°C (-9°F) or above 40°C (104°F). DME/DME RNP-0.3 NA.

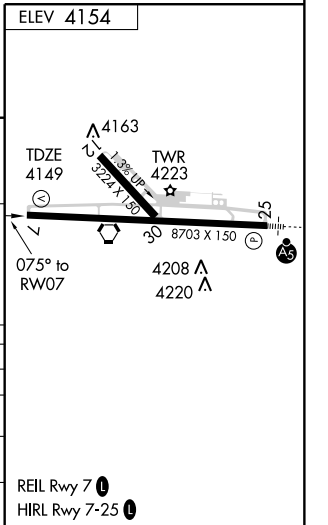
When local altimeter setting not received, use Jerome altimeter setting and increase all DA/MDA 60 feet and increase LPV and LNAV/VNAV all Cats, and LNAV Cats C and D visibility ¼ mile. VDP NA when using Jerome altimeter setting.

MISSED APPROACH: Climb to 6000 direct YOYUN and via 345° track to ZUPNU and via 277° track to SECAR and hold.

ASOS 135.025	TWIN FALLS APP CON* 126.7 353.75	TWIN FALLS TOWER* 118.2 (CTAF) 317.5	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	4399-¾ 250 (300-¾)			
LNAV/VNAV DA	4668-1¾ 519 (600-1¾)			
LNAV MDA	4620-1	471 (500-1)	4620-1½ 471 (500-1½)	4620-1½ 471 (500-1½)
CIRCLING	4680-1 526 (600-1)	4720-1 566 (600-1)	4740-1½ 586 (600-1½)	4800-2 646 (700-2)



NW-1. 03 JUN 2010 to 01 JUL 2010

WAAS CH 56311 W25A	APP CRS 255°	Rwy Idg 8703 TDZE 4154 Apt Elev 4154
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RNAV (GPS) RWY 25

TWIN FALLS/JOSLIN FIELD-MAGIC VALLEY RGNL (TWF)

▼ Baro-VNAV NA when using Jerome altimeter setting. For uncompensated Baro-VNAV systems, UNAV/VNAV NA below -23°C (-9°F) or above 40°C [104°F]. DME/DME RNP-0.3 NA. For inoperative MALSR, increase UNAV visibility Cat D to 1 mile. When local altimeter setting not received, use Jerome altimeter setting and increase all DA/MDA 60 feet and all visibilities $\frac{3}{4}$ mile. When using Jerome altimeter setting, inoperative table does not apply.

▲ VDP NA when using Jerome altimeter setting.

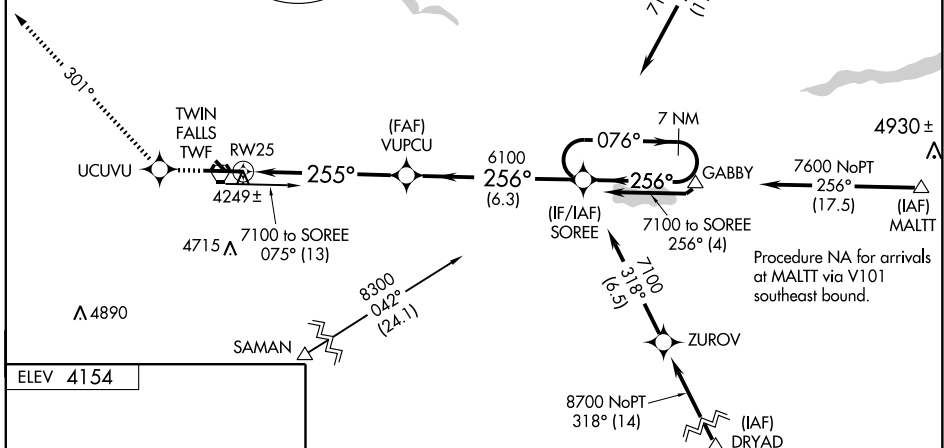
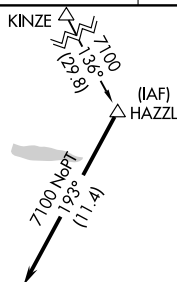
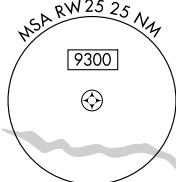
MALSR



MISSED APPROACH: Climb to 6000 direct UCUVU and via 301° track to SECAR and hold.

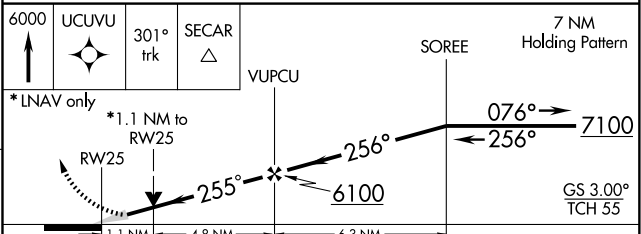
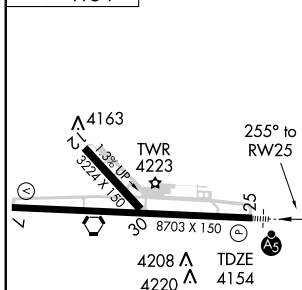
ASOS 135.025	TWIN FALLS APP CON * 126.7 353.75	TWIN FALLS TOWER * 118.2 (CTAF) 0 317.5	GND CON 121.7	UNICOM 122.95
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MISSED APCH FIX



Procedure NA for arrivals at MALTT via V101 southeast bound

ELEV 4154



		1.1 NM		4.8 NM		8.3 NM			
CATEGORY		A		B		C		D	
LPV	DA	4354-½ 200 (200-½)							
LNAV/ VNAV	DA	4531-¾ 377 (400-¾)							
LNAV MDA		4560-½		406 (500-½)		4560-¾ 406 (500-¾)		4560-1 406 (500-1)	
CIRCLING		4680-1 526 (600-1)		4720-1 566 (600-1)		4740-1½ 586 (600-1½)		4800-2 646 (700-2)	

REIL Rwy 7 **L**
HIRL Rwy 7-25 **L**

SNAKO ONE DEPARTURE

GND CON

121.7

TWIN FALLS TOWER*

118.2 317.5

TWIN FALLS DEP CON*

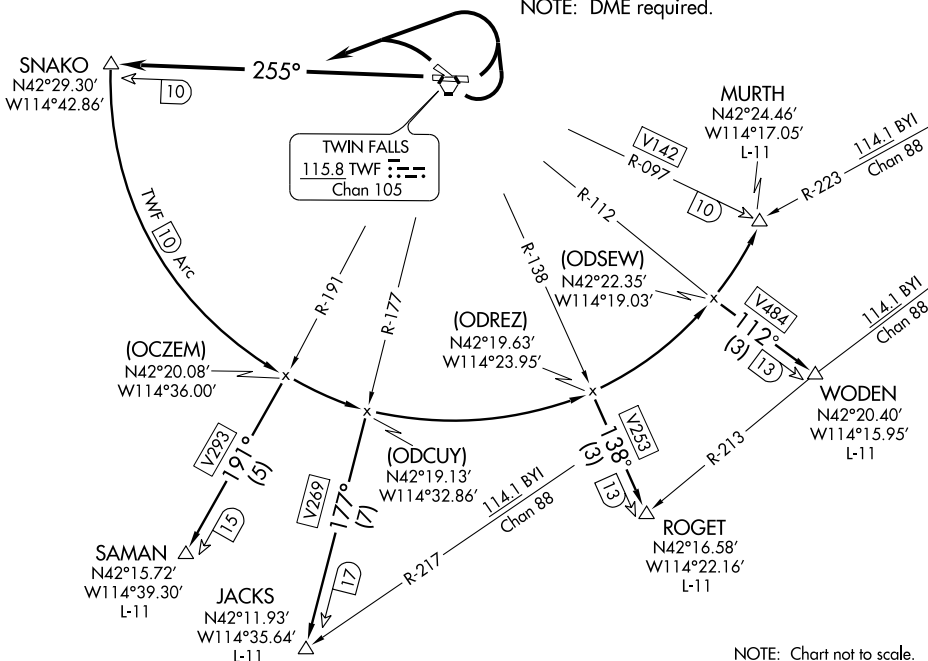
126.7 353.75

ASOS 135.025

NOTE: ROGET transition requires a minimum climb of 290' per NM to 7600'.

NOTE: MURTH transition requires a minimum climb of 210' per NM to 10500'.

NOTE: DME required.



NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 25: Climb runway heading, thence. . .

TAKE-OFF RUNWAYS 7, 30, 12: Climbing left turn, thence. . .

. . . intercept and proceed via TWF R-255 to SNAKO DME Fix, thence via (assigned transition).

JACKS TRANSITION (SNAKO1.JACKS): From over SNAKO DME Fix via 10 DME Arc and V269 to JACKS INT. Thence via (assigned route).MURTH TRANSITION (SNAKO1.MURTH): From over SNAKO DME Fix via 10 DME Arc and V142 to MURTH INT. Thence via (assigned route).ROGET TRANSITION (SNAKO1.ROGET): From over SNAKO DME Fix via 10 DME Arc and V253 to ROGET INT. Thence via (assigned route).SAMAN TRANSITION (SNAKO1.SAMAN): From over SNAKO DME Fix via 10 DME Arc and V293 to SAMAN INT. Thence via (assigned route).WODEN TRANSITION (SNAKO1.WODEN): From over SNAKO DME Fix via 10 DME Arc and V484 to WODEN INT. Thence via (assigned route).

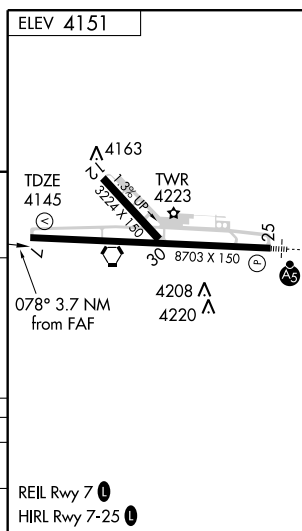
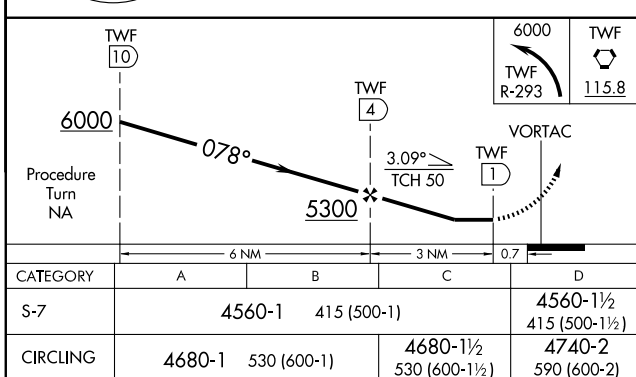
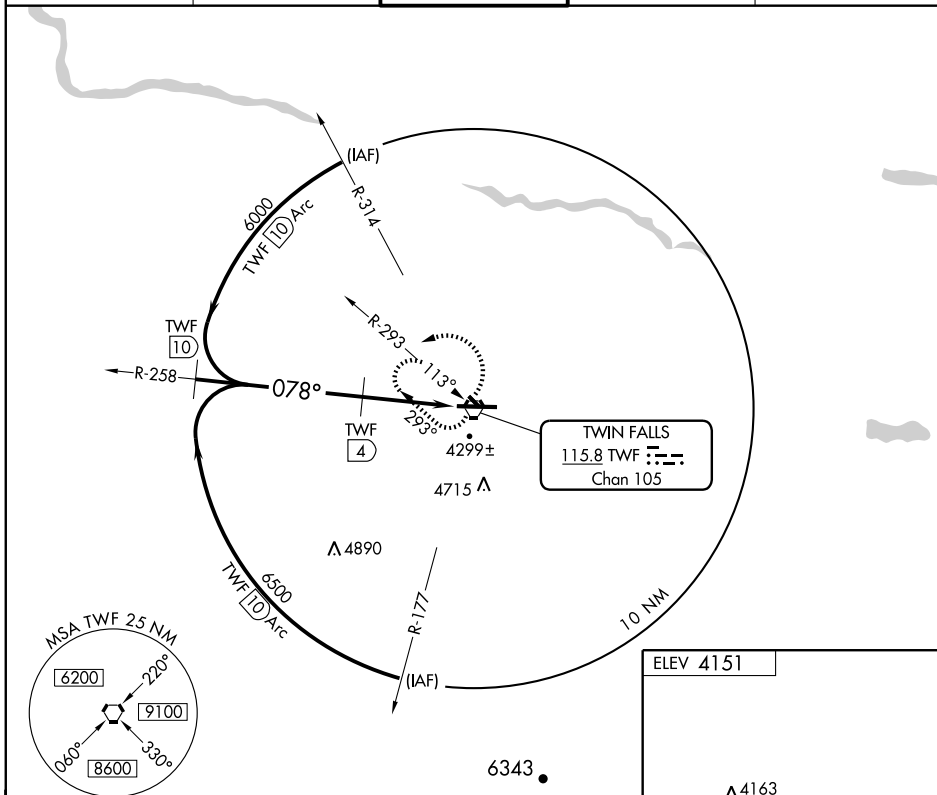
VOR/DME RWY 7

TWIN FALLS/JOSLIN FIELD-MAGIC VALLEY RGNL (TWF)

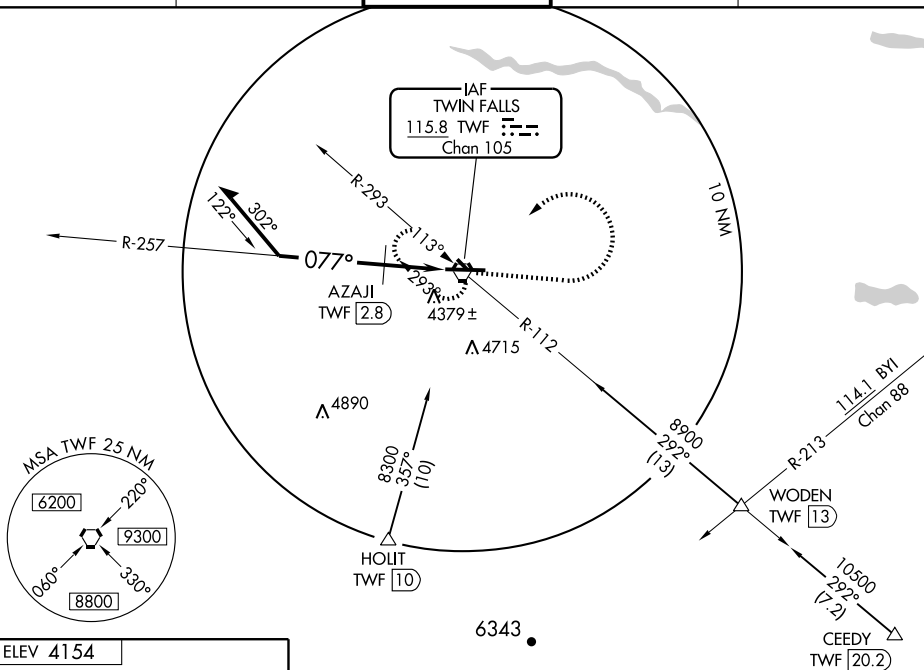
VORTAC TWF	APP CRS	Rwy Idg	8703
115.8	078°	TDZE	4145
Chan 105		Apt Elev	4151

MISSED APPROACH: Climbing left turn to 6000 on TWF R-293 within 10 NM, return to VORTAC and hold.

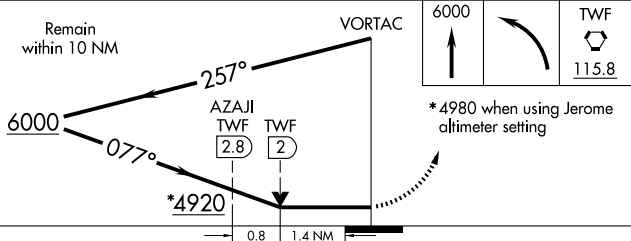
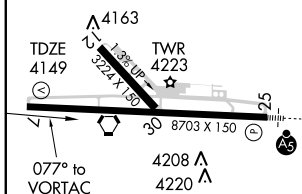
ASOS 135.025	TWIN FALLS APP CON ★ 126.7 353.75	TWIN FALLS TOWER ★ 118.2 (CTAF) 317.5	GND CON 121.7	UNICOM 122.95
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MISSED APPROACH: Climb to 6000 then left turn direct TW F VORTAC and hold.

UNICOM
122.95

ELEV 4154



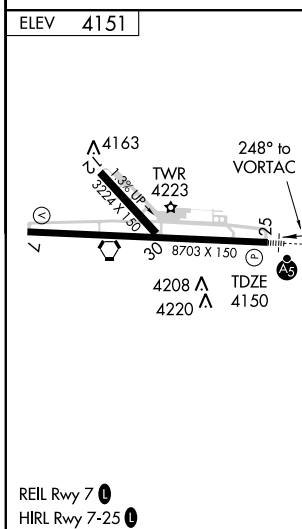
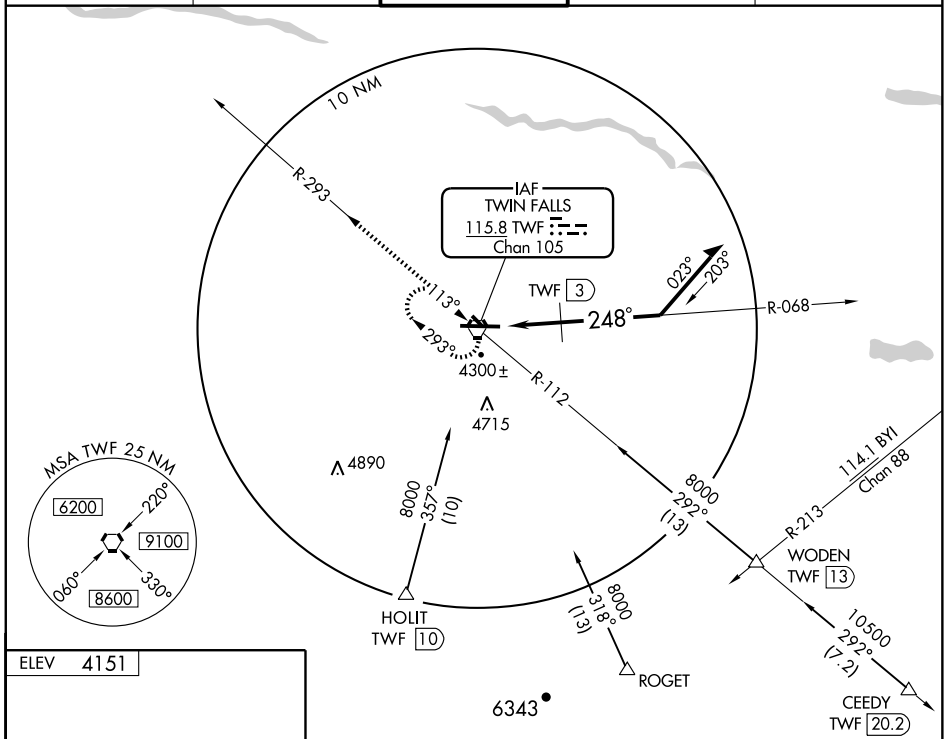
CATEGORY	A	B	C	D
S-7	4920-1 771 (800-1)	4920-1¼ 771 (800-1¼)	4920-2¼ 771 (800-2¼)	4920-2½ 771 (800-2½)
CIRCLING	4920-1 766 (800-1)	4920-1¼ 766 (800-1¼)	4920-2¼ 766 (800-2¼)	4920-2½ 766 (800-2½)
AZAJI FIX MINIMUMS				
S-7	4640-1	491 (500-1)	4640-1¼ 491 (500-1¼)	4640-1½ 491 (500-1½)
CIRCLING	4680-1 526 (600-1)	4720-1 566 (600-1)	4740-1½ 586 (600-1½)	4800-2 646 (700-2)



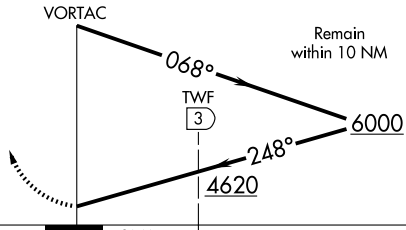
REIL Rwy 7 **L**HIRL Rwy 7-25 **L**

VORTAC TWF 115.8 Chan 105	APP CRS 248°	Rwy Idg 8703 TDZE 4150 Apt Elev 4151
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TWIN FALLS/JOSLIN FIELD-MAGIC VALLEY RGNL (TWF)

		MALSR 	MISSED APPROACH: Climbing right turn to 6000 on R-293 TWF VORTAC within 10 NM, return to VORTAC and hold.	
ASOS 135.025	TWIN FALLS APP CON ★ 126.7 353.75	TWIN FALLS TOWER ★ 118.2 (CTAF) 317.5	GND CON 121.7	UNICOM 122.95



<div>6000</div> <div>TWF R-293</div>		<div>TWF</div> <div>115.8</div>	<div>VORTAC</div> <div><div>Remain within 10 NM</div></div>	
CATEGORY	A	B	C	D
S-25	4620-½	470 (500-½)	4620-¾ 470 (500-¾)	4620-1¼ 470 (500-1¼)
CIRCLING	4680-1	530 (600-1)	4680-1½ 530 (600-1½)	4740-2 590 (600-2)
DME MINIMA				
S-25	4560-½ 410 (500-½)			4560-1 410 (500-1)

▼

NA

DME/DME RNP-0.3 NA. Procedure NA at night.
Use Ontario altimeter setting; when not received, use Boise altimeter setting and increase all MDAs 160 feet.

MISSED APPROACH:

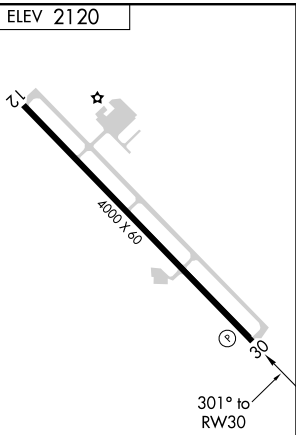
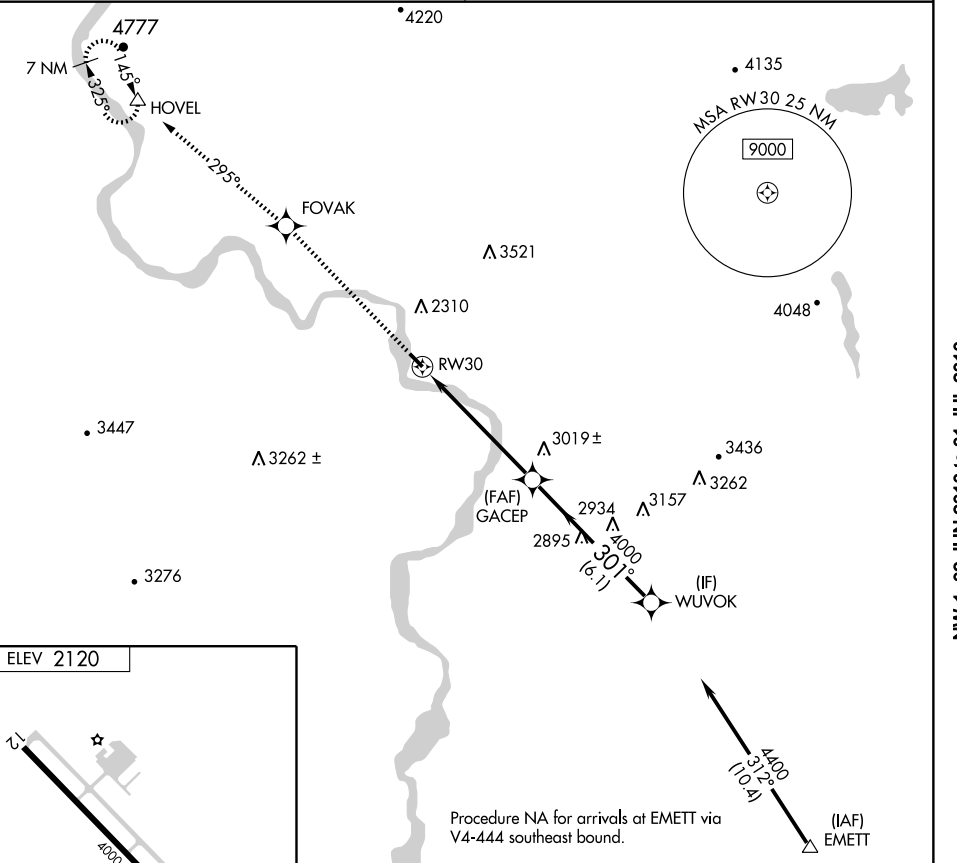
Climb to 9000 direct FOVAK and via 295° track to HOVEL and hold, continue climb-in-hold to 9000.

SALT LAKE CENTER

128.05 387.15

UNICOM

122.8 (CTAF) 1



MIRL Rwy 12-30 1
REIL Rwy 12 and 30 1

	9000	FOVAK	295° track	HOVEL		WUVOK	
					GACEP		
						4000	4400
						301°	Procedure Turn NA
CATEGORY	A		B		C		D
CIRCLING	3480-1¼ 1360 (1400-1¼)		3480-1½ 1360 (1400-1½)		3480-3		1360 (1400-3)

NW-1. 03 JUN 2010 to 01 JUL 2010

INSTRUMENT APPROACH PROCEDURE CHARTS



IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI VOR/DME or GPS-A
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI NDB or GPS Rwy 34
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL RNAV (GPS) Rwy 26¹²
VOR Rwy 8³

- ¹NA when local weather not available.
²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.
³Category C, 800-2¼; Category D, 900-3.

AURORA, OR

AURORA STATE LOC Rwy 17¹
RNAV (GPS) Rwy 17²³
RNAV (GPS) Rwy 35²

- ¹Category D, 800-2¼.
²NA when local weather not available.
³Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-2¼.

BAKER, MT

BAKER MUNI NDB Rwy 13¹
NDB Rwy 31²

- ¹Categories A,B, 1100-2; Categories C,D,
1100-3.
²Categories A,B, 1000-2; Category C, 1000-2¾;
Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI RNAV (GPS) Rwy 13¹²
VOR-A¹³
VOR/DME Rwy 13²⁴

- ¹NA when local weather not available.
²Category D, 900-2¾.
³Categories A,B, 1900-2; Categories C,D,
1900-3.
⁴NA when control zone not in effect.

NAME ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL ILS or LOC Rwy 16
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD VOR Rwy 31
Category D, 800-2¼.

BILLINGS, MT

BILLINGS LOGAN
INTL NDB Rwy 10L¹
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R³

- ¹Category D, 800-2¼.
²Categories A,B,C,D, 800-2¼.
³Categories A,B, 900-2; Categories C,D,
900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN
FIELD) LOC BC Rwy 28L
RNAV (GPS) Y Rwy 10R
RNAV (GPS) Y Rwy 28L
VOR/DME or TACAN Rwy 10L
VOR/DME or TACAN Rwy 28L
Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD VOR Rwy 12
Category C, 800-2¼; Category D, 800-2½.

BREMERTON, WA

BREMERTON NATIONAL ..RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 19¹
NA when local weather not available.

- ¹Categories A,B, 1200-2; Categories C,D,
1200-3.

BUFFALO, WY

JOHNSON COUNTY RNAV (GPS) Rwy 31¹
VOR/DME Rwy 31²
NA when local weather not available.
¹Category D, 800-2¼.

NAME ALTERNATE MINIMUMS

BURLEY, ID

BURLEY MUNI VOR-A
 VOR/DME-B
 NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL NDB Rwy 10'
 RNAV (GPS) Rwy 10
 RNAV (GPS) Rwy 28

NA when local weather not available.

¹Categories A,B, 1300-2; Categories C,D,
 1300-3.

BURNS, OR

BURNS MUNI VOR Rwy 30
 Categories A, B, 1400-2; Categories C,D,
 1400-3.

BUTTE, MT

BERT MOONEY ILS Y Rwy 15'
 LOC/DME Rwy 15'
 RNAV (GPS) Y Rwy 15'
 RNAV (GPS) Z Rwy 15,1200-2
 VOR or GPS-B,1400-3
 VOR/DME or GPS-A,3000-3

¹Categories A, B, C, 1200-4.

²Categories A,B, 1300-2; Categories C,D,
 1300-3.

³Categories A,B, 1500-2; Categories C,D,
 1500-3.

CALDWELL, ID

CALDWELL
 INDUSTRIAL RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 30
 NA when local weather not available.

CASPER, WY

CASPER/NATRONA
 COUNTY INTL ILS or LOC Rwy 3
 ILS, Categories A,B, 800-2; Category C 800-
 2½; Category D, 800-2¾; Category E, 900-3.
 LOC, Category C, 800-2½; Category D, 800-
 2¾; Category E, 900-3.

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON
 FIELD ILS or LOC Rwy 27'
 NDB Rwy 27'
 RNAV (GPS) Rwy 9²
 RNAV (GPS) Rwy 13²
 RNAV (GPS) Rwy 31²

¹NA when control tower closed.

²NA when local weather not available.

NAME ALTERNATE MINIMUMS

CODY, WY

YELLOWSTONE
 REGIONAL RNAV (GPS) Rwy 22'
 VOR or GPS-A²

¹Category C, 800-2¼; Category D, 200-2¼.

²Category D, 900-3.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY
 BOYINGTON FIELD ILS or LOC/DME Rwy 5
 NDB Rwy 5
 RNAV (GPS) Rwy 5
 VOR Rwy 5
 VOR/DME Rwy 1

NA when local weather not available.

CORVALLIS, OR

CORVALLIS MUNI VOR-A
 Categories A,B,1200-2; Categories C,D,
 1200-3.

DEER PARK, WA

DEER PARK RNAV (GPS) Rwy 34
 NA when local weather not available.

DILLON, MT

DILLON VOR or GPS-A,1500-3
 VOR/DME or GPS-B

NA when Dillon altimeter setting not available.

DOUGLAS, WY

CONVERSE COUNTY VOR Rwy 29
 Categories A,B, 1100-2; Categories C,D,
 1100-3. DME standard.

EASTSOUND, WA

ORCAS ISLAND RNAV (GPS)-A
 Categories A, B, 1100-2.
 NA when local weather not available.

ELLENSBURG, WA

BOWERS FIELD RNAV (GPS) Rwy 25'
 RNAV (GPS) Rwy 29
 VOR-B²

NA when local weather not available.

¹Category D, 800-2¼.

²Category A, 1500-2.

EPHRATA, WA

EPHRATA MUNI RNAV (GPS) Rwy 3'
 RNAV (GPS) Rwy 21²
 VOR/DME Rwy 3'
 VOR Rwy 21'

NA when local weather not available.

¹Category D, 1300-3.

²Category C, 800-2¼; Category D, 1300-3.

NAME ALTERNATE MINIMUMS

EUGENE, OR

MAHLON-SWEET

FIELD ILS or LOC/DME Z Rwy 16R¹
 ILS or LOC Y Rwy 16R¹
 ILS or LOC/DME Rwy 16L¹²
 RNAV (GPS) Rwy 34R²
 VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Categories A,B, 900-2; Category C, 900-2½;
 Category D, 900-2¾.

EVANSTON, WY

EVANSTON-UINTA COUNTY

BURNS FIELD ILS or LOC/DME Rwy 23
 Categories C,D, 700-2.

EVERETT, WA

SNOHOMISH COUNTY(PAINE

FIELD) ILS or LOC/DME Rwy 16R
 NA when control tower closed.
 NA when local weather not available.

FORT BENTON, MT

FORT BENTON RNAV (GPS) Rwy 23
 NA when local weather not available.

GILLETTE, WY

GILLETTE-CAMPBELL

COUNTY ILS or LOC Rwy 34¹²
 RNAV (GPS) Rwy 16³
 RNAV (GPS) Rwy 34⁴
 VOR/DME Rwy 16⁵
 VOR/DME Rwy 34¹

¹Categories A,B, 900-2; Category C, 900-2½;
 Category D, 1000-3.

²NA when control tower closed.

³Categories A,B,C, 800-2¾; Category D,
 1000-3.

⁴Categories A,B,C,D, 1200-4.

⁵Category C, 800-2¾; Category D, 1000-3.

GLASGOW, MT

WOKAL FIELD/

GLASGOW INTL VOR Rwy 12
 Categories A,B, 900-2; Categories C,D, 900-3.
 VOR/DME standard.

GLENDEIVE, MT

DAWSON

COMMUNITY NDB or GPS Rwy 12,900-2¾

GOODING, ID

GOODING MUNI RNAV (GPS) Rwy 7
 RNAV (GPS) Rwy 25

NA when local weather not available.

NAME ALTERNATE MINIMUMS

GRAY AAF (KGRF)

FORT LEWIS, WA NDB Rwy 15
 NDB Rwy 33
 ILS or LOC Rwy 15
 COPTER NDB Rwy 15

NA when control tower closed.

GREAT FALLS, MT

GREAT FALLS INTL NDB Rwy 34
 Category D, 800-2¼.

GREYBULL, WY

SOUTH BIG HORN COUNTY RNAV (GPS)-A
 RNAV (GPS) Rwy 33¹

NA when local weather not available.

¹Category D, 1200-3.

HAILEY, ID

FRIEDMAN

MEMORIAL RNAV (GPS) W Rwy 31
 Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT

HAVRE CITY-COUNTY VOR Rwy 26
 Categories A, B, 900-2; Category C, 900-2¾;
 Category D, 900-3.

HELENA, MT

HELENA RGNL ILS or LOC Y Rwy 27¹²
 ILS or LOC Z Rwy 27¹²
 LOC/DME BC-C¹³
 NDB-D¹⁴
 RNAV (GPS) Y Rwy 9⁵
 RNAV (GPS) Rwy 23⁶
 RNAV (GPS) X Rwy 27⁵
 RNAV (RNP) Z Rwy 9⁷
 RNAV (RNP) Y Rwy 27⁷
 RNAV (RNP) Z Rwy 27⁷⁹
 VOR-A⁸
 VOR/DME-B⁶

¹NA when control tower closed.

²Categories A, B, 1600-2; Categories C, D, E,
 1600-3.

³Categories A, B, 1300-2; Categories C, D,
 1300-3.

⁴Category A, 1200-2.

⁵Categories A, B, 1600-2; Categories C, D,
 1600-3.

⁶Categories A, B, 900-2; Category C, 900-2¾;
 Category D, 900-3.

⁷NA when local weather not available.

⁸Categories A, B, 2900-2; Categories C, D,
 2900-3.

⁹1000-4.

NAME ALTERNATE MINIMUMS

MC CALL, ID

MC CALL MUNI RNAV (GPS) Rwy 16¹
RNAV (GPS) Y Rwy 34²
RNAV (GPS) Z Rwy 34³⁴

¹Category C, 900-2½.

²Categories A, B, 1600-2; Categories C, D, 1600-3.

³NA when local weather not available.

⁴Category C, 900-2½; Category D, 1000-3.

MC MINNVILLE, OR

MC MINNVILLE MUNI ILS or LOC Rwy 22
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22
VOR/DME-B

NA when local weather not available.

Category D 800-2¼.

MEDFORD, OR

ROGUE VALLEY INTL-
MEDFORD ILS or LOC/DME Rwy 14¹²
LOC/DME BC-B²³
RNAV (GPS)-D³
RNAV (GPS) Rwy 14⁴
VOR-A⁵
VOR/DME-C³
VOR/DME Rwy 14⁵

¹ILS, Categories A, B, C, 700-2; Category D, 900-2½. LOC, Category D, 900-2½.

²NA when control tower closed.

³Categories A, B, 2300-2; Categories C, D, 2300-3.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

⁵Categories A, B, 1400-2; Category C, D 1400-3.

MISSOULA, MT

MISSOULA INTL ILS Rwy 11¹
RNAV (GPS) Y Rwy 11²³
RNAV (RNP) Z Rwy 11², 800-2½
VOR/DME or GPS-A, 2000-3
VOR/DME or GPS-B, 2000-3

¹ILS, 1600-6. LOC, NA.

²NA when local weather not available.

³Categories A, B, 1900-2; Categories C, D, 1900-3.

NAME ALTERNATE MINIMUMS

MOSES LAKE, WA

GRANT COUNTY INTL ... ILS or LOC Rwy 32R¹
NDB Rwy 32R²
RNAV (GPS) Rwy 4¹
RNAV (GPS) Rwy 14L¹
RNAV (GPS) Rwy 22¹
VOR Rwy 4²
VOR -1 Rwy 14L²
VOR -3 Rwy 14L²
VOR Rwy 22²
VOR Rwy 32R²

¹NA when local weather not available.

²NA when control tower closed.

NEWCASTLE, WY

MONDELL FIELD VOR or GPS Rwy 31
NA except for operators with approved weather reporting service.
Categories A, B, 900-2; Categories C, D, 900-3.

NORTH BEND, OR

SOUTHWEST OREGON
RGNL ILS or LOC Rwy 4¹
NDB or GPS Rwy 4²
VOR or GPS-A³
VOR/DME or GPS-B⁴
VOR/DME Rwy 4⁴

¹ILS, Categories A, B, 800-2; Category C, 900-2¼, Category D, 1000-3. LOC, Category C, 900-2¼, Category D, 1000-3.

²Category C, 900-2¼; Category D, 1000-3.

³Categories A, B, 1100-2; Categories C, D, 1100-3.

⁴Categories C, D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG RNAV (GPS) Rwy 7
NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL ILS or LOC Rwy 17¹²³
RNAV (GPS) Rwy 17²
RNAV (GPS) Rwy 35²
VOR-A²⁴
VOR/DME Rwy 35²

¹ILS, Categories C, D, 700-2.

²NA when local weather not available.

³NA when control tower closed.

⁴Category D, 800-2¼.

ONTARIO, OR

ONTARIO MUNI RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32

NA when local weather not available.

NAME ALTERNATE MINIMUMS

PASCO, WA

TRI-CITIES ILS or LOC Rwy 21R¹²
 RNAV (GPS) Rwy 3L
 RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 21R
 RNAV (GPS) Rwy 30
 VOR Rwy 21R³
 VOR/DME Rwy 30

NA when local weather not available.

¹NA when control tower closed.

²ILS, Categories A,B,C, 700-2; Category D,
 700-2½. LOC, Category D, 800-2½.

³Category D, 800-2½.

PENDLETON, OR

EASTERN OREGON RGNL AT

PENDLETON ILS or LOC/DME Rwy 25¹
 RNAV (GPS) Rwy 7
 RNAV (GPS) Rwy 11
 RNAV (GPS) Rwy 25
 RNAV (GPS) Rwy 29
 VOR Rwy 7

NA when local weather not available.

¹ILS, NA when control tower closed.

PINEDALE, WY

PINEDALE/RALPH WENZ

FIELD NDB-A¹
 RNAV (GPS) Rwy 11²
 RNAV (GPS) Rwy 29²

NA when local weather not available.

¹Category C, 800-2½; Category D, 800-2½.

²Category D, 800-2½.

POCATELLO, ID

POCATELLO RGNL ILS or LOC Rwy 21¹
 RNAV (GPS) Rwy 3²
 RNAV (GPS) Rwy 21²

¹NA when control zone not in effect.

²NA when local weather not available.

PORT ANGELES, WA

WILLIAM R

FAIRCHILD INTL ILS or LOC Rwy 8
 RNAV (GPS) Rwy 8¹
 RNAV (GPS) Rwy 26

NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D,
 1000-3.

NAME ALTERNATE MINIMUMS

PORTLAND, OR

PORTLAND INTL ILS or LOC Rwy 10L¹
 ILS or LOC Rwy 10R²
 ILS or LOC Rwy 28L³
 ILS or LOC Rwy 28R⁴
 LOC/DME Rwy 21⁵
 RNAV (GPS) Rwy 10L⁵
 RNAV (GPS) Rwy 10R⁵
 RNAV (GPS) Rwy 12⁷
 RNAV (GPS) Rwy 28L⁸
 RNAV (GPS) Rwy 28R⁸
 VOR/DME Rwy 21⁵
 VOR-A⁹
 VOR Rwy 28R⁵

¹ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.

²Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3; Category E, 1100-3.

³ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3; Category E, 1100-3. LOC, Category D, 1000-3; Category E, 1100-3.

⁴ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.

⁵Category D, 1000-3.

⁶Categories A,B,C 800-5; Category D, 1000-5.

⁷NA when local weather not available.

⁸Category D, 1000-3.

⁹Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

PORTLAND-HILLSBORO .. ILS or LOC Rwy 12¹
 RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 30

NA when local weather not available.

¹Categories A, B, 1500-2; Categories C, D, 1500-3.

PORTLAND-TROUTDALE NDB or GPS-A
 Categories A,B, 1100-2; Category C, 1100-3;
 Category D, 1300-3.

PULLMAN/MOSCOW, WA

PULLMAN/MOSCOW

MUNI RNAV (GPS) Rwy 5,800-2½

RAWLINS, WY

RAWLINS MUNI/

HARVEY FIELD RNAV (GPS) Rwy 22¹
 VOR/DME Rwy 22²

¹Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2½.

²Categories A, B, 1000-2; Category C, 1000-2½; Category D, 1000-3.

NAME ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD ILS or LOC Rwy 22¹
VOR/DME Rwy 22²

¹ILS, LOC, Category D, 800-2½; Category E,
800-2½.

²Category A, B, 1000-2; Category C, 1000-2¾;
Category D, E, 1000-3.

RENTON, WA

RENTON MUNI NDB Rwy 16¹
RNAV (GPS) Y Rwy 16²
RNAV (GPS) Z Rwy 16³

NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D,
1000-3.

²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

³Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON
COUNTY RNAV (GPS) Rwy 35
NA when local weather not available.
Category D, 800-2½.

RICHLAND, WA

RICHLAND NDB Rwy 19¹
RNAV (GPS) Rwy 19¹
RNAV (GPS) Rwy 26¹
VOR/DME-A²
VOR Rwy 26¹

¹Category D, 800-2½.

²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

RIVERTON, WY

RIVERTON RGNL ILS or LOC Rwy 28
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28
VOR Rwy 10
VOR Rwy 28

NA when local weather not available.

ROSEBURG, OR

ROSEBURG RGNL RNAV (GPS)-B
NA when local weather not available.
Categories A, B, 1200-2; Category C, 1200-3;
Category D, 1400-3.

SALEM, OR

MCNARY FIELD ILS or LOC Rwy 31¹²
LOC/DME Rwy 31³
RNAV (GPS) Rwy 31¹³

¹NA when local weather not available.

²ILS, Categories A, B, 800-2; Category C,
800-2½; Category D, 800-2½. LOC, Category
C, 800-2½; Category D, 800-2½.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL
AIRPARK VOR/DME or GPS-A
Category B, 900-2; Category C, 1000-2¾;
Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY
INTL ILS Rwy 13R¹
ILS Rwy 31L²
LOC/DME Rwy 13R³
RNAV (GPS) Y Rwy 13R⁴
RNAV (RNP) Z Rwy 13R⁵

¹ILS, Category A, 800-2; Category B, 900-2;
Category C, 900-2½; Category D, 1000-3.

²Category A, 800-2; Category B, 900-2;
Category C, 900-2½; Category D, 1000-3.

³Category B, 900-2; Category C, 900-2½;
Category D, 1000-3.

⁴Category B, 900-2; Category C, 900-2¾;
Category D, 1000-3.

⁵Categories A, B, C, D, 800-2½.

SHERIDAN, WY

SHERIDAN
COUNTY ILS or LOC/DME Rwy 32
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.
Category D, 800-2½.

SIDNEY, MT

SIDNEY-RICHLAND MUNI NDB Rwy 1¹
NDB Rwy 19²
RNAV (GPS) Rwy 1³
RNAV (GPS) Rwy 19³

NA when local weather not available.

¹Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2¾.

²Categories A, B, 1000-2; Category C, 1000-
2¾; Category D, 1000-3.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SPOKANE, WA

FELTS FIELD ILS/DME Rwy 21R¹
RNAV (GPS)-A²
RNAV (GPS) Rwy 3L²
VOR Rwy 3L^{3,4}

- ¹Categories A,B, 1000-2; Category C, 1000-2½.
²Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.
³Categories A, B, 1000-2; Categories C, D, 1000-3.
⁴NA when local weather not available.

SPOKANE INTL ILS or LOC Rwy 3¹
ILS or LOC/DME Rwy 21¹
RNAV (GPS) Rwy 3²
VOR Rwy 3³

- ¹ILS, Category D, 700-2.
²Category D, 800-2½.
³Category E, 800-2½.

TACOMA, WA

TACOMA NARROWS ILS Rwy 17¹
NDB Rwy 35¹
RNAV (GPS) Rwy 17^{1,2}
RNAV (GPS) Rwy 35^{2,3}

- ¹NA when control tower closed.
²Category D, 800-2½.
³NA when local weather not available.

THE DALLES, OR

COLUMBIA GEORGE RGNL/
THE DALLES MUNI RNAV (GPS)-A
Categories A,B, 1100-2; Category C, 1100-3;
Category D, 1200-3.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY
RGNL ILS or LOC Rwy 25¹
NDB Rwy 25
RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25
VOR Rwy 7²

- NA when local weather not available.
¹ILS, Category D, 700-2; Category E, 900-3.
LOC, Category E, 900-3.
²Category C, 800-2½; Category D, 800-2½.

NAME ALTERNATE MINIMUMS

WALLA WALLA, WA

WALLA WALLA RGNL ILS or LOC Rwy 20¹
NDB Rwy 20, 1000-3
RNAV (GPS) Rwy 2^{2,3}
RNAV (GPS) Rwy 16²
RNAV (GPS) Rwy 20²
VOR/DME Rwy 2²

- ¹ILS, LOC, Categories A,B, 1100-2; Categories C, D, 1100-3.
²Category D, 800-2½.
³NA when local weather not available.

WENATCHEE, WA

PANGBORN
MEMORIAL ILS Y Rwy 12, 1300-4
VOR/DME-C^{1,2}
VOR/DME-A³

- ¹NA when local weather not available.
²Categories A, B, 1500-2; Categories C, D, 1500-3.
³Categories A, B, 2000-2; Categories C, D, 2000-3.

WOLF POINT, MT

L.M. CLAYTON RNAV (GPS) Rwy 11
RNAV (GPS) Rwy 29

NA when local weather not available.

WORLAND, WY

WORLAND MUNI VOR or GPS Rwy 16
Categories C,D, 800-2½.

YAKIMA, WA

YAKIMA AIR TERMINAL/
MCALLISTER FIELD ILS Y Rwy 27^{1,2}
ILS Z Rwy 27^{1,3}
LOC/DME BC-B^{1,4}
RNAV (GPS) Y Rwy 27⁵
RNAV (GPS) Z Rwy 27⁴
VOR/DME or TACAN Rwy 27⁶
VOR-A⁷

- ¹NA when control tower closed.
²ILS, Categories A, B, 600-2½; Category C, 700-2½; Category D, 800-2½.
³Category C, 700-2; Category D, 800-2½
⁴Category D, 800-2½.
⁵Category C, 800-2½; Category D, 800-2½.
⁶Categories A, B, 1100-2; Categories C, D, 1100-3.
⁷Category C, 800-2½; Category D, 800-2½.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16**, Use LUNDI DEPARTURE. **Rwy 34**, use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16**, turn right.

Rwy 34, turn left. All aircraft climb direct CVO VOR/DME and continue climb in CVO VOR/DME holding pattern, (E, right turns, 261° inbound) to cross CVO VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, std. w/min. climb of 417' per NM to 9000, or 2800-3 for climb in visual conditions. **Rwy 17**, std. w/min. climb of 321' per NM to 10200, or 2800-3 for climb in visual conditions. **Rwy 22**, NA-obstacles. **Rwy 35**, std. w/min. climb of 369' per NM to 9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 35**, climbing right turn to 10200 via heading 130° and CPN VOR/DME R-340 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NAME TAKE-OFF MINIMUMS

BOWMAN FIELD(CON'T)

Rwy 17, climbing left turn to 10200 via heading 100° and CPN VOR/DME R-335 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NOTE: **Rwy 17**, multiple trees beginning 865' from departure end of runway, 243' left of centerline, up to 70' AGL/5097' MSL. Rod on hangar 570' from departure end of runway, 278' left of centerline, 54' AGL/5054' MSL. Multiple trees beginning 787' from departure end of runway, 165' right of centerline, up to 70' AGL/5098' MSL. Multiple transmission lines beginning 4602' from departure end of runway, 1664' right of centerline, 80' AGL/5159' MSL. **Rwy 35**, multiple transmission lines beginning 2242' from departure end of runway, 964' left of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA - Obstacles. DEPARTURE PROCEDURE: Use JATTS DEPARTURE.

ARLINGTON, WA

ARLINGTON MUNI

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwy 16, climb direct to WATON LOM. **Rwys 29, 34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR

ASTORIA RGNL

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8, 31**, turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA

AUBURN MUNI

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR

AURORA STATE

DEPARTURE PROCEDURE: **Rwy 17**, turn right,

thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL.

Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL. Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway, 163' left of centerline, up to 138' AGL/329' MSL.

Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT

BAKER MUNI

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY, OR

BAKER CITY MUNI

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

Rwy 13, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17, NA. Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C, D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8, 13**, turn left.

Rwys 26, 31, 35, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA

BELLINGHAM INTL

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34**, climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16**, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL.

Rwy 34, lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. Multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR

BEND MUNI (BDN)

AMDT 4 09183 (FAA)

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY

MILEY MEMORIAL FIELD

TAKE-OFF MINIMUMS: **Rwys 8, 26**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 8400 via BPI R-124. **Rwy 31**, climb to 10800 via BPI R-320 thence all aircraft climb on course.

BILLINGS, MT

BILLINGS LOGAN INTL (BIL)
AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R**, NA- Obstacles.
DEPARTURE PROCEDURE: **Rwy 10L**, Climb heading
098° to 4600 before turning right.

NOTE: **Rwy 10L**, fence 466' from departure end of
runway, 535' right of centerline, 11' AGL/3511' MSL,
cars on road, beginning from 624' from departure end of
runway, 427' right of centerline, 15' AGL/3523' MSL,
ground beginning 21' from departure end of runway, 499'
right of centerline, 0' AGL/3505' MSL. **Rwy 25**, airport
security fence, abeam departure end of runway, 500' left
of centerline, 11' AGL/3672' MSL to 1200' from
departure end of runway, abeam rwy centerline, 11' AGL/
3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or
higher assigned altitude) direct IDA VOR/DME, before
proceeding on course. **Rwy 19**, climb to 7000 (or higher
assigned altitude) direct PIH VORTAC, before
proceeding on course.

BOISE, ID

BOISE AIR TERMINAL / GOWEN FIELD (BOI)
AMDT 6 10042 (FAA)

DEPARTURE PROCEDURE: Use GOWEN
DEPARTURE.

BOZEMAN, MT

GALLATIN FIELD (BZN)
AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.
DEPARTURE PROCEDURE: **Rwys 12, 30**, use
BOZEMAN DEPARTURE.

BREMERTON, WA

BREMERTON NATIONAL (PWT)
AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. w/min.
climb of 410' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 1**, Climbing right
turn to 6000 direct CAN NDB, Thence... **Rwy 19**, Climb
to 6000 direct CAN NDB, thence...
...Continue climb-in-hold (S, LT, 013° inbound) to 6000
before proceeding on course.

NOTES: **Rwy 1**, Multiple bushes 380' from departure end
of runway, 522' left of centerline, up to 17' AGL/456'
MSL, multiple trees and poles beginning 1210' from
departure end of runway, 622' left of centerline, up to 100'
AGL/561' MSL, multiple trees and bushes 1012' from
departure end of runway, 708' right of centerline, up to
100' AGL/495' MSL. **Rwy 19**, Multiple trees beginning
176' from departure end of runway, 337' left of centerline,
up to 100' AGL/514' MSL, multiple trees beginning 371'
from departure end of runway, 277' right of centerline, up
to 100' AGL/548' MSL.

BUFFALO, WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:

Rwys 13, 31, 2400-2 or std. with a min. climb of 300' per
NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std.
with a min climb of 300' per NM to 6000.

DEPARTURE PROCEDURE: Northbound aircraft:

Rwy 13, turn left. **Rwy 31**, climb straight ahead.

All aircraft proceed via SHR R-139 to SHR VORTAC.
Southbound aircraft: **Rwy 13**, climb straight ahead.

Rwy 31, turn right. **All aircraft** proceed via CZI R-319 to
CZI VOR/DME.

BURLEY, ID

BURLEY MUNI (BYI)

AMDT 5 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 24**, 300-1½ or std. w/min.
climb of 428' per NM to 4500.

DEPARTURE PROCEDURE: **Rwy 2**, climbing left turn
direct BYI VOR/DME, continue climb in BYI VOR/DME
holding pattern (hold Northwest right turns, 125°
inbound) to cross BYI VOR/DME at or above MEA for
route of flight. **Rwy 6**, climbing left turn direct BYI VOR/
DME, continue climb in BYI VOR/DME holding pattern
(hold Northwest right turns, 125° inbound) to cross BYI
VOR/DME at or above MEA for route of flight. **Rwy 20**,
climbing right turn direct BYI VOR/DME, continue climb
in BYI VOR/DME holding pattern (hold Northwest right
turns, 125° inbound) to cross BYI VOR/DME at or above
MEA for route of flight. **Rwy 24**, climbing right turn
direct BYI VOR/DME, continue climb in BYI VOR/DME
holding pattern (hold Northwest right turns, 125°
inbound) to cross BYI VOR/DME at or above MEA for
route of flight.

NOTE: **Rwy 2**, obstruction light on bridge 252' from DER,
513' left of centerline, 57' AGL/4195' MSL. Trees
beginning 686' from DER, 201' right of centerline, up to
35' AGL/4184' MSL. Tree 694' from DER, 375' left of
centerline, 29' AGL/4178' MSL. Obstruction light on
building 736' from DER, 188' left of centerline, 11' AGL/
4161' MSL. Tower 803' from DER, 590' left of centerline,
55' AGL/4204' MSL. Vehicles on road beginning 857'
from DER, 1' right of centerline, up to 17' AGL/4168'
MSL. Poles beginning 1226' from DER, 549' left of
centerline, up to 72' AGL/4222' MSL. Building vent 1240'
from DER, 164' left of centerline, 27' AGL/4177' MSL.
Stack 2206' from DER, 856' right of centerline, 86' AGL/
4236' MSL. Stack 2573' from DER, 614' left of
centerline, 86' AGL/4236' MSL. Elevators beginning
3980' from DER, 131' right of centerline, up to 133' AGL/
4283' MSL. **Rwy 6**, trees beginning 46' from DER, 172'
right of centerline, up to 14' AGL/4163' MSL. Rising
terrain beginning 49' from DER, 326' right of centerline,
up to 4149' MSL. Bush 150' from DER, 103' right of
centerline, 5' AGL/4147' MSL. Antenna 586' from DER,
398' left of centerline, 15' AGL/4165' MSL. Obstruction
light on bridge 1061' from DER, 80' right of centerline,
39' AGL/4179' MSL.

BURLEY MUNI (BYI) (CON'T)

Rwy 20, obstruction light pole 42' from DER, 124' left of centerline, 16' AGL/4170' MSL. Railroad beginning 65' from DER, 4' left of centerline, up to 23' AGL/4177' MSL. Sign 181' from DER, 121' right of centerline, 18' AGL/4172' MSL. Vehicles on road 162' from DER, 2' left of centerline, 17' AGL/4169' MSL. Vehicles on road beginning 335' from DER 348' right of centerline up to 17' AGL/4171' MSL. Pole 446' from DER, 210' right of centerline, 26' AGL/4180' MSL. Antenna 523' from DER, 337' right of centerline, 63' AGL/4217' MSL. Tree 586' from DER, 213' right of centerline, 28' AGL/4182' MSL. Trees beginning 2014' from DER, 339' left of centerline, up to 96' AGL/4251' MSL.

Rwy 24, vehicles on road beginning 25' from DER, 9' left of centerline, up to 15' AGL/4169' MSL. Fence 58' from DER, 8' left of centerline, 4' AGL/4154' MSL. Rising terrain beginning 69' from DER, 201' right of centerline, up to 4154' MSL. Railroad 152' from DER, 6' left of centerline, 23' AGL/4176' MSL. Trees beginning 427' from DER, 101' right of centerline, up to 69' AGL/4223' MSL. Vehicles on road beginning 509' from DER, 586' right of centerline, up to 15' AGL/4169' MSL. Railroad beginning 568' from DER, 288' right of centerline, up to 23' AGL/4177' MSL. Pole 735' from DER, 185' left of centerline, 18' AGL/4172' MSL. Light standard 824' from DER, 58' right of centerline, 23' AGL/4177' MSL. Antenna 1630' from DER, 112' left of centerline, 58' AGL/4212' MSL. Tower 2766' from DER, 175' left of centerline, 123' AGL/4282' MSL. Tower 3570' from DER, 158' right of centerline, 157' AGL/4312' MSL. Obstruction light on elevators beginning 3115' from DER, 164' left of centerline, up to 184' AGL/4344' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)
ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or std. with a min. climb of 245' per NM to 2300. **Rwy 22**, 1300-2 or std. with a min. climb of 210' per NM to 1800.

DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right heading 280°. **Rwy 28**, climb runway heading.

All aircraft climb to 2500 then turn right direct BVS NDB to cross BVS at or above 4500. Aircraft departing on BVS R-145 CWR-330 climb on course. All others continue climbing in BVS holding pattern (NW, right turns 113° inbound) to cross BVS at or above 6800 before proceeding on course.

NOTE: **Rwy 4**, tree 2581' from departure end of runway, 426' left of centerline, 100' AGL/212' MSL. Light pole 1489' from departure end of runway, 136' left of centerline 35' AGL/137' MSL. Bush 126' from departure end of runway, 430' right of centerline, 20' AGL/101' MSL. Building 2925' from departure end of runway, 130' left of centerline, 60' AGL/180' MSL.

BURNS, OR

BURNS MUNI

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30**, climbing left turn, thence...
...All aircraft departing on ILR R-072 CWR-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21**, pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT

BERT MOONEY

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15**, std. w/ min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29**, std. w/ min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 29**, climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 33**, climb direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence...

...climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15**, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL.

Rwy 29, multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6379' MSL. **Rwy 33**, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID

CALDWELL INDUSTRIAL

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30**, climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12**, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY

CASPER/NATRONA COUNTY INTL (CPR)
AMDT 3A 09155 (FAA)

DEPARTURE PROCEDURE: **Rwys 3,8,12**, turn left.

All other runways, turn right. **All aircraft** climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS, WA

CHEHALIS-CENTRALIA

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLM R-151 to OLM VORTAC before proceeding on course. **Rwy 34**, climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON FIELD

NOTE: **Rwy 13**, multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31**, multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

CODY, WY

YELLOWSTONE RGNL (COD)

AMDT 4 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, std. with a min. climb of 400' per NM to 8000' or 4200-3 for climb in visual conditions. **Rwy 22**, std. with a min. climb of 385' per NM to 7400' or 4200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to 5900, then climbing left turn via COD R-171 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight. **Rwy 22**, climb heading 218° to 6600, then climbing left turn via COD R-180 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 4**, trees beginning 100' from DER, 262' right of centerline, up to 79' AGL/5199' MSL. Rising terrain beginning 1723' from DER, 304' right of centerline, up to 5146' MSL. **Rwy 22**, poles beginning 1 NM from DER, 406' right of centerline, up to 60' AGL/5332' MSL. Rising terrain beginning 1 NM from DER, 109' right of centerline, up to 6235' MSL. Rising terrain beginning 5074' from DER, 131' left of centerline, up to 5428' MSL.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY BOYINGTON FIELD (COE)

AMDT 9 10042 (FAA)

DEPARTURE PROCEDURE: use COEUR D'ALENE DEPARTURE.

COLSTRIP, MT

COLSTRIP (M46)

AMDT 2 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6** use CISPU (RNAV)

DEPARTURE: **Rwy 24**, use CONUK (RNAV) DEPARTURE.

CONRAD, MT

CONRAD

DEPARTURE PROCEDURE: **Rwy 24**, climb runway heading to 4300, then continue climb on course.

CORVALLIS, OR

CORVALLIS MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in visual conditions.

Rwy 27, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 9, 17**, climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

Rwys 27, 35, climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL. Multiple trees and railroad beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. **Rwy 27**, obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.

COWLEY/LOVELL/BYRON, WY

NORTH BIG HORN COUNTY

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

DEER PARK, WA

DEER PARK (DEW)
AMDT 1 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, 300-1½ or std. with a min. climb of 455' per NM to 2500.

DEPARTURE PROCEDURE: **Rwy 4**, climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 16**, climb heading 164° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 22**, climbing left turn heading 155° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 34**, climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC.

NOTE: **Rwy 4**, aircraft 261' from DER, 511' left of centerline, up to 21' AGL/2210' MSL. Trees beginning 1809' from DER, 413' left of centerline, up to 109' AGL/2299' MSL. Aircraft 104' from DER, 186' right of centerline, up to 21' AGL/2200' MSL. Trees beginning 1667' from DER, 373' right of centerline, up to 116' AGL/2319' MSL. **Rwy 16**, trees beginning 31' from DER, 455' left of centerline, up to 109' AGL/2279' MSL. Trees beginning 2587' from DER, 621' right of centerline, up to 104' AGL/2264' MSL. **Rwy 22**, trees beginning 1461' from DER, 211' right of centerline, up to 90' AGL/2270' MSL. **Rwy 34**, aircraft 23' from DER, 218' left of centerline, up to 21' AGL/2230' MSL. Trees beginning 2678' from DER, 18' left of centerline, up to 165' AGL/2375' MSL. Vehicles beginning 74' from DER, 339' right of centerline, up to 15' AGL/2234' MSL. Trees beginning 2219' from DER, 260' right of centerline, up to 100' AGL/2382' MSL.

DILLON, MT

DILLON

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwestbound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

DOUGLAS, WY

CONVERSE COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23**, 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11**, climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23**, climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29**, climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CW R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CW R-199 9600; R-200 CW R-252 8000.

NOTE: **Rwy 5**, trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID

DRIGGS-REED MEMORIAL (DIJ)
AMDT 2 08157 (FAA)

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA

ORCAS ISLAND (ORS)

AMDT 1 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, NA-Terrain. **Rwy 34**, 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34**, climbing right turn to 2000 to intercept HUH VORTAC R-210 to HUH VORTAC, then climb-in-hold (hold South, Left turns, 352° inbound) to cross HUH VORTAC at or above 3800 before proceeding on course.

NOTE: **Rwy 34**, trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENBURG, WA

BOWERS FIELD

TAKE-OFF MINIMUMS: **Rwys 7, 11**, 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25**, 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29**, 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29**, climbing right turn direct ELN VORTAC. **Rwys 11, 25**, climbing left turn direct ELN VORTAC. **All aircraft**, continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA

EPHRATA MUNI (EPH)

AMDT 3 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 027° to 2300 before proceeding on course. **Rwy 11**, climb heading 112° to 2200 before proceeding on course. **Rwy 21**, climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn... **Rwys 34L, 34R**, climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD

DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME.

Rwy 23, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.

All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence... **Rwys 29, 34L/R**, climbing left turn, thence...

...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.

NOTE: Rwy 11, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017

DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA R-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.

TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT

FORT BENTON

TAKE-OFF MINIMUMS: **Rwys 5, 23**, std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 5, 23**, for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY

FORT BRIDGER

DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing; FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA

FRIDAY HARBOR

TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.

DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC)

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21**, 600-3 or std. w/ min. climb of 425' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21**, climb via heading 206° to 5200, before proceeding on course.

NOTE: Rwy 3, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16**, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21**, fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30' AGL/4729' MSL. **Rwy 34**, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449' MSL. Vehicle on road 1610' from DER. 419' left of centerline, 15' AGL/4380' MSL.

GOODING, ID

GOODING MUNI (GNG)

ORIG 08269 (FAA)

DEPARTURE PROCEDURE: **Rwy 7**, climb heading 068° to 5000 before turning left. **Rwy 25**, climb heading 233° to 5600 before turning right.

NOTE: Rwy 7, rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25**, vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 100'-Obstacles.

DEPARTURE PROCEDURE: **Rwy 25**, Use MELLR

DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

GRAY AAF (KGRF)

FORT LEWIS, WA AMDT 2, 10098

Rwy 15, Standard

Rwy 33, 300-1*

* Or standard with minimum climb of 430/NM to 600.

DEPARTURE PROCEDURE: **Rwy 15**, Climb heading 147° to 700 then climbing left turn direct GRF NDB.

Rwy 33, Climb direct GRF NDB. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GRF NDB climb on course. All others continue climb in GRF NDB holding pattern (hold NW, RT, 147° inbound) to cross GRF NDB at or above: 071° CW 134° bearing from GRF NDB, 8500; 261° CW 329° bearing from GRF NDB, 1500.

TAKE-OFF OBSTACLES: **Rwy 15**, Tree 100' AGL/439' MSL, 1848' from DER, 430' right of centerline. **Rwy 33**, Tree 100' AGL/479' MSL, 3465' from DER, 1338' left of centerline.

GREAT FALLS, MT

GREAT FALLS INTL

NOTE: **Rwy 7**, obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21**, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25**, windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1 or std. w/min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **All runways**, for departures on Gey bearings 320° CW 150°, climb in Gey NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures Gey bearings 150° CW 320° climb on course.

NOTE: **Rwy 25**, bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.

GUERNSEY, WY

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.

DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°. **All aircraft** continue on course.

HAILEY, ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3 w/min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 13**, Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.

NOTE: **Rwy 13**, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.

HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE, MT

HAVRE CITY-COUNTY (HVR)

AMDT 3 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, 300-1½ or std. w/min. climb of 217' per NM to 3300.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 3300 then climbing left turn to 8000 direct HVR VOR/DME thence...**Rwy 8**, climb heading 077° to 3300 then climbing left turn to 8000 via HVR R-025 to HVR VOR/DME thence...**Rwy 21**, climb heading 212° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...**Rwy 26**, climb heading 257° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...

...continue climb in hold in HVR VOR/DME holding pattern (hold west, right turns, 094° inbound) to cross HVR VOR/DME at or above 8000 before proceeding on course.

NOTE: **Rwy 3**, pole 2682' from DER, 1044' left of centerline, 21' AGL/2680' MSL. **Rwy 8**, obstruction light on windsock 59' from DER, 224' left of centerline, 9' AGL/2588' MSL. Tree 1192' from DER, 752' left of centerline, 25' AGL/2610' MSL. Tank 1.3 NM from DER, 2287' left of centerline, 57' AGL/2797' MSL. **Rwy 26**, light on windsock, 50' from DER, 225' right of centerline, 9' AGL/2589' MSL. Trees beginning 1617' from DER, 650' right of centerline, 25' AGL/2659' MSL.

HELENA, MT

HELENA RGNL (HLN)
ADMT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9**, std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 23**, 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16, 34, NA**.
DEPARTURE PROCEDURE: **Rwys 5, 9**, climbing left turn heading 270°. **Rwys 23, 27**, climbing right turn heading 020°. **All Aircraft**: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5**, ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23**, pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27**, building 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.
DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 110°. **Rwy 24**, climb runway heading.
All aircraft climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)
ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 450' per NM to 6300, or 500-2½ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31**, climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13**, road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31**, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL (IDA)
AMDT 4 09351 (FAA)

DEPARTURE PROCEDURE: **All aircraft** departing IDA R-160 CW R-040 climb on course. **All others** climb direct IDA VOR/DME. Continue climb in IDA holding pattern (South, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500 before proceeding on course.

NOTE: **Rwy 2**, pole 1039' from DER, 758' left of centerline, 42' AGL/4762' MSL. **Rwy 17**, trees, flagpole, building, light and vent on buildings, and vehicle on road beginning 29' from DER, 10' right of centerline, up to 84' AGL/4820' MSL. Trees and vent on building beginning 569' from DER, 22' left of centerline, up to 35' AGL/4760' MSL. Trees, antenna, and light poles beginning 1853' from DER, 26' right of centerline, up to 121' AGL/4851' MSL. **Rwy 35**, trees and railroad beginning 410' from DER, 503' right of centerline, up to 49' AGL/4769' MSL. Tree 1034' from DER, 715' left of centerline, 42' AGL/4762' MSL.

JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



JEROME, ID

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 500-1½ or std. w/ min. climb of 435' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.

NOTE: **Rwy 9**, bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL. **Rwy 27**, fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.

JOHN DAY, OR

GRANT COUNTY RGNL/OGILVIE FIELD
(GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, NA, Terrain.

DEPARTURE PROCEDURE: **Rwy 27**, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 27**, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.

KALISPELL, MT

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT
DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL (KLS)

AMDT 3 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, NA, terrain. **Rwy 30**, std. with a min. climb of 370' per NM to 1900 or 1900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 30**, climb heading 303° to 1900 then climbing right turn to 3900 direct LSO NDB. Continue climb in LSO NDB holding pattern (North, right turns, 175° inbound) to cross LSO NDB at or above 3900, then via BTG R-310 to BTG VORTAC. For climb in visual conditions: cross Southwest Washington Rgnl at or above 1800, then via BTG R-309 to BTG VORTAC.

NOTE: **Rwy 30**, light pole 22' from DER, 301' right of centerline, 30' AGL/49' MSL. Windssock 235' from DER, 348' left of centerline, 30' AGL/49' MSL. Rotating beacon 502' from DER, 425' left of centerline, 50' AGL/70' MSL. Multiple trees beginning 213' from DER, 530' right to 747' left of centerline, up to 136' AGL/155' MSL. Pole 964' from DER, 44' right of centerline, 30' AGL/50' MSL.

KEMMERER, WY

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA -Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/DME before proceeding on course. **Rwy 34**, climb via heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/DME before proceeding on course.

KLAMATH FALLS, OR

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400. **Rwy 32**, 2000-3 or std. with a min. climb of 320' per NM to 6300.

DEPARTURE PROCEDURE: **Rwys 14, 25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.

LA GRANDE, OR

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800. **Rwy 30**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34**, 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16**, 2000-3 or std. with a min. climb of 500' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 12, 16**, climbing left turn direct LGD NDB, thence; **Rwys 30, 34**, climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.



LAKEVIEW, OR**LAKE COUNTY**

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKV R-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKV R-148 then via LKV R-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY**LARAMIE RGNL**

DEPARTURE PROCEDURE: **Rwy 3**, turn left.

Rwys 12, 21, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.

LAUREL, MT**LAUREL MUNI**

TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32**, NA.

DEPARTURE PROCEDURE: **Rwy 22**, turn left.

All aircraft climb direct BIL VORTAC.

LEWISTON, ID**LEWISTON-NEZ PERCE COUNTY**

DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, turn left direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN, MT**LEWISTOWN MUNI**

TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7, 12**, 900-2 or std. with a min. climb of 220' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 2, 30** turn left.

Rwys 7, 12, 20, turn right. **Rwy 25**, climb runway heading. **All aircraft** climb direct LWT VORTAC.

Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR**LEXINGTON**

TAKE-OFF MINIMUMS: **Rwy 26**, std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8**, std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 8, 26**, for climb in visual conditions: cross Lexington Airport at or above 3600.

NOTES: **Rwy 8**, trees 1.42 NM from departure end of runway, 2386' left of centerline, 100' AGL/2159' MSL. Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT**LIBBY**

TAKE-OFF MINIMUMS: **Rwy 33**, not authorized.

Rwy 15, use EYESE RNAV DEPARTURE.

LIVINGSTON, MT**MISSION FIELD (LVM)****AMDT 3 09071 (FAA)**

TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA-Environmental.

DEPARTURE PROCEDURE: **Rwys 4, 22**, use LIVINGSTON DEPARTURE.

MADRAS, OR**MADRAS MUNI (S33)****AMDT 1 10154 (FAA)**

TAKE-OFF MINIMUMS: **Rwys 16, 22**, std. with a min. climb of 298' per NM to 3900 or 1300-3 for climb in visual conditions

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing left turn heading 210° to intercept DSD R-348 to DSD VORTAC, thence... **Rwy 16**, climbing right turn heading 210° to intercept DSD R-348 to DSD VORTAC, thence..., or for climb in visual conditions: cross Madras Muni airport at or above 3600 MSL, then proceed on DSD R-356 to DSD VORTAC, thence... **Rwy 22**, climb heading 216° to intercept DSD R-348 to DSD VORTAC, thence..., or for climb in visual conditions: cross Madras Muni airport at or above 3600 MSL, then proceed on DSD R-356 to DSD VORTAC, thence...

...continue climb-in-hold (hold North, right turns, 168° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 4**, vehicle on road beginning 7' from DER, 268' left of centerline, up to 15' AGL/2444' MSL. Airplane on tarmac 60' from DER, 252' right of centerline, 40' AGL/2469' MSL. Bush 383' from DER, 483' right of centerline, 19' AGL/2439' MSL. Vehicle on road 742' from DER, 112' right of centerline, up to 15' AGL/2447' MSL. **Rwy 16**, bushes beginning 196' from DER, 151' left of centerline, up to 14' AGL/2444' MSL. Airplane on tarmac 1357' from DER, 280' right of centerline 40' AGL/2479' MSL. **Rwy 34**, bushes beginning 92' from DER, 116' right of centerline, up to 17' AGL/2437' MSL. Airplane on tarmac 1396' from DER, 375' left of centerline, 40' AGL/2469' MSL.

MC CALL, ID**MC CALL MUNI (MYL)****AMDT 2 09127 (FAA)**

TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL DEPARTURE.

MC CHORD FIELD (KTCM)

TACOMA, WA 10154

DEPARTURE PROCEDURE: **Rwy 16**, Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34**, Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.

TAKEOFF OBSTACLES: **Rwy 16**, Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34**, Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

MC MINNVILLE, OR

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1¼ or std. w/min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17**, std. w/min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22**, std. w/min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35**, climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17**, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22**, multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35**, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277' MSL.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Obstacles.

Rwy 14, std. w/min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32**, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29**, use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R**, antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL.

Rwy 18, pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windsock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L**, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12,30, 6700-3*

* Or standard with minimum climb of 270/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28**, 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct STI NDB. **Rwy 28**, climbing right turn direct STI NDB. All aircraft departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

Rwy 29, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11**, 70' AGL tree, 1225' from departure end of runway, 90' right of centerline.

NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5,17,23,35**, NA. **Rwy 13**, 200-1 or std. with a min. climb of 275' per NM to 4400.

Rwy 31, 300-1 or std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn.

All aircraft climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13**, fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31**, multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, NA. **Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2**, NA. **Rwy 16**, turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTHBEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 5 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, std. with a min. climb of 475' per NM to 1200 or 900-3 with a min. climb of 300' per NM to 900 or 1600-2½ for climb in visual conditions. **Rwy 13**, 400-2½ with a min. climb of 250' per NM to 2500 or 1600-2½ for climb in visual conditions. **Rwy 31**, 300-1½ or std. with a min. climb of 280' per NM to 300.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 043° to intercept OTH VORTAC R-337 northwest bound to 1800 before proceeding on course, or for climb in visual conditions cross Southwest Oregon Rgnl airport at or above 1500 before proceeding on course. **Rwy 13**, climb heading 132° to 1300 before proceeding on course, or for climb in visual conditions cross Southwest Oregon Rgnl airport at or above 1500 before proceeding on course. **Rwy 22**, climb heading 223° to 700 before proceeding on course. **Rwy 31**, climb heading 312° to 800 before proceeding on course.

NOTE: **Rwy 4**, Obstruction light on antenna 383' from DER, 207' right of centerline, 22' AGL/35' MSL. Ship 1000' from DER, on centerline, up to 140' MSL. Obstruction lights on bridge beginning 1886' from DER, 621' left of centerline, up to 93' AGL/93' MSL. Bridge beginning 4728' from DER, 580' right of centerline, 265' AGL/265' MSL. Obstruction lights on bridge beginning 4741' from DER, 948' right of centerline, up to 268' AGL/268' MSL. Transmission tower 5031' from DER, 677' right of centerline, 213' AGL/216' MSL. Trees beginning 1.2 NM from DER, 409' left of centerline, up to 150' AGL/549' MSL. Trees beginning 1.5 NM from DER, 1396' right of centerline, up to 150' AGL/629' MSL. Buildings beginning 1.7 NM from DER, 776' left of centerline, up to 73' AGL/393' MSL. **Rwy 13**, bushes beginning 38' from DER, 175' left of centerline, up to 16' AGL/33' MSL. Vehicle on road, 193' from DER, 237' left of centerline, up to 15' AGL/30' MSL. Bush 193' from DER, 145' right of centerline, up to 20' AGL/37' MSL. Trees beginning 346' from DER, 17' right of centerline, up to 150' AGL/349' MSL. Buildings beginning 504' from DER, 243' right of centerline, up to 86' AGL/106' MSL. Trees beginning 628' from DER, 6' left of centerline, up to 150' AGL/298' MSL. Antenna on building 712' from DER, 554' right of centerline, up to 51' AGL/68' MSL. Poles beginning 880' from DER, 13' right of centerline, up to 136' AGL/236' MSL. Spire 3467' from DER, 1122' left of centerline, 55' AGL/243' MSL. Pole 1.0 NM from DER, 159' left of centerline, up to 121' AGL/221' MSL. **Rwy 22**, ship 4050' from DER, on centerline, up to 140' MSL. **Rwy 31**, ship 1000' from DER, on centerline, up to 140' MSL. Trees beginning 5037' from DER, 15' left of centerline, up to 92' AGL/232' MSL. Trees beginning 5985' from DER, 1419' right of centerline, up to 108' AGL/188' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 300-1
DEPARTURE PROCEDURE: **Rwy 7**, climb via heading
071° to 2000, then climbing right turn direct CVV
VOR/DME. Continue climb on course. **Rwy 25**, climb
via heading 251° to 2100, then climbing left turn direct
CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7**, multiple trees beginning 1167' from DER,
212' left of centerline, up to 80' AGL/319' MSL. Multiple
trees beginning 664' from DER, 208' right of centerline,
up to 80' AGL/299' MSL. Fence 612' from DER, right
and left of centerline, 10' AGL/229' MSL. Multiple
bushes beginning 240' from DER, 64' left of centerline,
up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from
DER, left and right of centerline, up to 15' AGL/174'
MSL. Multiple trees beginning 2271' from DER, right
and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a
min. climb of 706' per NM to 600, or 2200-3 for climb in
visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading
085° to 1000 then climbing left turn direct OLM
VORTAC, thence... **Rwy 17**, climb heading 172° to 1200
then climbing right turn direct OLM VORTAC, thence...
or climb in visual conditions to cross OLM VORTAC at
or above 2300, thence... **Rwys 26, 35**, climbing right
turn direct OLM VORTAC, thence...

...continue climb in OLM VORTAC holding pattern
(south, right turn, 356° inbound) to cross OLM
VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, multiple trees beginning 880' from DER,
214' left of centerline, up to 100' AGL/343' MSL.

Multiple trees beginning 1636' from DER, 131' right of
centerline, up to 100' AGL/320' MSL. **Rwy 17**, multiple
trees beginning 1008' from DER, 24' left of centerline,
up to 100' AGL/490' MSL. Multiple trees beginning 752'
from DER, 3' right of centerline, up to 100' AGL/370'
MSL. **Rwy 26**, multiple trees and WSK on building
beginning 475' from DER, 595' left of centerline, up to
100' AGL/330' MSL. Multiple trees beginning 338' from
DER, 339' right of centerline, up to 100' AGL/309' MSL.
Rwy 35, multiple trees beginning 2176' from DER, 198'
left of centerline, up to 100' AGL/313' MSL. Multiple
trees and field light on hangar beginning 657' from
DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a
min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG
RNAV DEPARTURE. **Rwy 35**, NA.

ONTARIO, OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on
a heading between 010° CW to 141° from departure end
of runway or minimum climb of 280' per NM to 9600 for
all other courses.

NOTE: **Rwy 14**, multiple trees, poles, and buildings
beginning 90' from departure end of runway, 157' right
of centerline up to 120' AGL/2314' MSL. Multiple trees,
poles, and buildings beginning 502' from departure end
of runway, 506' left of centerline up to 120' AGL/2314'
MSL. **Rwy 32**, multiple trees, poles, and buildings
beginning 340' from departure end of runway, 405' left of
centerline up to 100' AGL/2458' MSL. Multiple trees,
poles, and buildings beginning 2' from departure end of
runway, 472' right of centerline up to 100' AGL/2431'
MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb
runway heading to 1000, thence... **Rwy 12**, turn left. All
others turn right. **All aircraft** climb direct PSC VOR/
DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON
(PDT)

AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34**, climbing
left turn direct PDT VORTAC, thence...

Rwys 11, 16, climbing right turn direct PDT VORTAC,
thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern
(West, left turn, 073° inbound) to cross PDT VORTAC
at or above MEA before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 232' from DER,
348' right of centerline, up to 100' AGL/1579' MSL.

Rwy 25, multiple antennas and terrain beginning 203'
from DER, 259' left of centerline, up to 13' AGL/1512'
MSL. **Rwy 29**, terrain 189' from DER, 247' left of
centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb
of 310' per NM to 8300, or 4900-3 for climb in visual
conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right
turn to 10000 via heading 190° and BPI R-040 to BPI
VOR/DME before proceeding on course. **Rwy 29**,
climbing left turn to 10000 via heading 230° and BPI
R-020 to BPI VOR/DME before proceeding on course
or for climb in visual conditions: cross Pinedale/Ralph
Wenz Field at or above 11800 before proceeding on
course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12**, multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/2251' MSL. **Rwy 30**, multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 7 09351 (FAA)

DEPARTURE PROCEDURE: use KNURL ONE DEPARTURE.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179 MSL. Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB. Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8, 13, 26, 31**, use WATTR FIVE DEPARTURE.

PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 500-3 or std. w/min. climb of 400' per NM to 600. **Rwy 10L/R**, std. w/min. climb of 270' per NM to 2900. **Rwy 21**, std. w/min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence ... **Rwys 10L, 10R**, climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence ... **Rwy 21**, climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence ... **Rwys 28L, 28R**, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence ... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3**, signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L**, rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R**, pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21**, trees beginning 1319' from departure end of runway, 155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L**, trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND, OR (CON'T)

PORTLAND-HILLSBORO (HIO)
AMDT 6 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwy 2**, std. w/ min. climb of 215' per NM to 1900 or 1200-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 235' per NM to 2700 or 1200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct UBG VOR/DME... **Rwy 20**, climbing left turn direct UBG VOR/DME... **Rwys 2, 30**, climbing left turn direct UBG VOR/DME, or for climb in visual conditions cross Portland-Hillsboro airport at or above 1600 then proceed direct UBG VOR/DME...

...all aircraft climb in UBG VOR/DME holding pattern (West, right turns, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2**, vehicle on road 247' from DER, 1' right of centerline, up to 15' AGL/220' MSL. Terrain left and right of centerline beginning at DER up to 302' MSL.

Rwy 12, terrain left and right of centerline beginning at DER up to 296' MSL. Trees 1836' from DER, 8' left of centerline, up to 125' AGL/331' MSL. **Rwy 20**, terrain left and right of centerline beginning at DER up to 306' MSL. Trees and hangers beginning 60' from DER, 32' left of centerline, up to 93' AGL/311' MSL. Trees, antennas and buildings beginning 564' from DER, 411' right of centerline, up to 74' AGL/280' MSL. **Rwy 30**, terrain left and right of centerline beginning at DER up to 292' MSL. Trees beginning 1664' from DER, 626' right of centerline, up to 194' AGL/363' MSL.

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7**, 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left.

Rwy 25, turn right. **All aircraft** climb via BTG R-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

POWELL, WY**POWELL MUNI**

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

Rwy 31, turn left. **All aircraft** climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)
AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/ min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15**, std. w/ min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28**, std. w/ min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15**, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 28**, climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

Rwy 33, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10**, trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15**, trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28**, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33**, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319' MSL.

PULLMAN-MOSCOW, WA**PULLMAN-MOSCOW RGNL**

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1¼ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)

AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.DEPARTURE PROCEDURE: **Rwy 16**, climbing rightturn. **Rwy 34**, climb runway heading. **All aircraft** climb

via SEA R-158 to COTNY INT/SEA 18.1 DME.

Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16**, light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34**, multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

RAWLINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min.climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std.with a min climb of 365' per NM to 8700. **Rwys 10, 28**, NA.DEPARTURE PROCEDURE: **Rwy 4**, turn right.

Rwy 22, turn left. Climb to 10000 via RWL R-200 and CKW R-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)

AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std. w/ min. climb of 269' per NM to 4700. **Rwy 28**, std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10**, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22**, climb heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28**, climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28**, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)

AMDT 7 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 405' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2½ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 157° to 700, then climbing right turn direct SEA VORTAC, thence..., or for climb in visual conditions: cross Renton Muni Airport westbound at or above 1000 MSL, then proceed on SEA R-029 to SEA VORTAC, thence... **Rwy 34**, Climb heading 337° to 700, then climbing left turn direct SEA VORTAC thenceClimb in SEA VORTAC holding pattern (East, left turns, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16**, trees, towers, lights and blast shield beginning 185' from DER, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from DER, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34**, Trees and terrain beginning 1.6 NM from DER, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from DER, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right turn. **Rwy 35**, climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17**, 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND (RLD)

AMDT 8 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwys 1, 8**, std. w/ min. climb of 310' per NM to 5000. **Rwy 19**, std. w/ min. climb of 480' per NM to 5000. **Rwy 26**, std. w/ min. climb of 350' per NM to 5000.

DEPARTURE PROCEDURE: **Rwys 1, 8**, climbing left turn heading 220° and PSC R-269 to 6000 to PAPPS INT/PSC 32.72 DME before proceeding on course. **Rwy 19**, climbing right turn heading 310° and PSC R-269 to 6000 to PAPPS INT/PSC 32.72 DME before proceeding on course. **Rwy 26**, climb heading 310° and PSC R-269 to 6000 to PAPPS INT/PSC 32.72 DME before proceeding on course.

NOTE: **Rwy 1**, crane 4957' from DER, 1271' right of centerline, up to 120' AGL/520' MSL. Poles beginning 752' from DER, 446' right of centerline, up to 20' AGL/416' MSL. Trees beginning 43' from DER, 102' left of centerline, up to 25' AGL/424' MSL. Multiple trees 184' from DER, 162' right of centerline, up to 25' AGL/424' MSL. **Rwy 8**, railroad beginning 181' from DER, left to right of centerline, up to 23' AGL/412' MSL. Sign 23' from DER, 122' right of centerline, up to 4' AGL/391' MSL. Trees beginning 1142' from DER, 12' right of centerline, up to 25' AGL/454' MSL. Trees beginning 2240' from DER, 94' left of centerline, up to 25' AGL/456' MSL. **Rwy 19**, bushes beginning 22' from DER, 297' left of centerline, up to 7' AGL/401' MSL. Trees beginning 323' from DER, 478' right of centerline, up to 25' AGL/424' MSL. Trees beginning 665' from DER, 399' left of centerline, up to 25' AGL/472' MSL. **Rwy 26**, antenna 310' from DER, 444' right of centerline, up to 7' AGL/408' MSL. Fence 458' from DER, 360' left of centerline, up to 25' AGL/425' MSL. Fence 456' from DER, 408' right of centerline, up to 25' AGL/410' MSL. Post 398' from DER, 255' right of centerline, up to 9' AGL/409' MSL. Bush 755' from DER, 257' right of centerline, up to 17' AGL/417' MSL. Ground 480' from DER, 488' right of centerline, up to 421' MSL. Trees beginning 174' from DER, 231' right of centerline, up to 25' AGL/425' MSL. Trees beginning 184' from DER, 210' left of centerline, up to 25' AGL/457' MSL.

RIVERTON, WY

RIVERTON RGNL (RIW)

AMDT 1 10042 (FAA)

DEPARTURE PROCEDURE: **Rwys 1, 10, 19, 28**, climbing right turn direct RIW VOR/DME. **All Aircraft** climb in RIW holding pattern (hold East, right turns, 287° inbound) to MEA for direction of flight.

NOTES: **Rwy 1**, sage brush beginning 35' from DER, left and right of centerline, up to 3' AGL/5499' MSL. **Rwy 10**, sage brush beginning 20' from DER, left and right of centerline, up to 3' AGL/5466' MSL. **Rwy 19**, sage brush beginning 49' from DER, 171' right of centerline, up to 3' AGL/5479' MSL. Windstocks beginning 154' from DER, 268' right of centerline, up to 28' AGL/5468' MSL. **Rwy 28**, sage brush, tower, and pole beginning 54' from DER, 154' right of centerline, up to 59' AGL/5679' MSL. Sage brush, fence, and poles beginning 132' from DER, 27' left of centerline, up to 67' AGL/5647' MSL.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY (RKS)

AMDT 6 10098 (FAA)

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 8000 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 9**, climb heading 090° to 8200 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 21**, climb heading 212° to 8400, then climbing right turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 27**, climb heading 270° to 7900, then climbing right turn via OCS R-291 to OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 3**, vehicle on road beginning 22' from DER, 120' left of centerline, up to 20' AGL/6760' MSL, bushes beginning 178' from DER, 517' right of centerline, up to 15' AGL/6755' MSL. **Rwy 21**, bush 53' from DER, 221' left of centerline, 15' AGL/6737' MSL.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34**, std. w/ min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34**, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16**, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34**, building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

AMDT 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from departure end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURNLOM/Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURNLOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwy 35**, 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17**, NA. **Rwy 35**, climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1**, 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19**, 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn to COE VOR/DME via heading 200° and COE R-002.

Rwy 19, climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5**, turn left heading 280°. **Rwy 23**, turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33**, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15**, 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEY, MT

SCOBEY

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.



SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L**, 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R**, std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L**, std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 31R**, std. w/ a min. climb of 334' per NM to 900, or 400-1½ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEAR-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L**, multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL.

Rwy 13R, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L**, multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy 31R**, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R**, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence... climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L**, trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C**, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R**, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L**, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5**, 200-1¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5**, fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL. **Rwy 11**, truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions. **Rwy 23**, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000. **Rwy 23**, climbing left turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5**, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23**, multiple trees beginning 52' from departure end of runway, 149' left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.

SHERIDAN, WY**SHERIDAN COUNTY**

TAKE-OFF MINIMUMS: **Rwy 5**, 700-3 or std. w/ min. climb of 318' per NM to 5100, or... **Rwy 14**, 800-3 or std. w/ min. climb of 263' per NM to 5100, or... **Rwy 23**, 900-3 or std. w/ min. climb of 348' per NM to 5100, or...
 ... 1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 14**, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 23**, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 32**, climb via heading 320° and SHR R-106 to SHR VORTAC, thence...
 ... climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5**, multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23**, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32**, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT**SIDNEY-RICHLAND MUNI**

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA**HARVEY FIELD (S43)****ORIG 09127 (FAA)**

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L**, std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R**, std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L**, climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence... **Rwy 33R**, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 15L**, tree 81' from DER, 177' right of centerline, 40' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R**, powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA

FELTS FIELD (SFF)

AMDT 5 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3L**, std. w/ min. climb of 450' per NM to 3600, or 2300-3 for climb in visual conditions. **Rwy 3R**, std. w/ min. climb of 410' per NM to 3700, or 2300-3 for climb in visual conditions. **Rwy 21L**, std. w/ min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions. **Rwy 21R**, std. w/ min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R**, climb heading 035° to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above MCA/MEA for route of flight. **Rwys 21L, 21R**, climb heading 215° to 3200, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA/MEA for route of flight.

NOTE: **Rwy 3L**, trees beginning 1853' from DER, 772' right of centerline, up to 100' AGL/2037' MSL. Trees beginning 3538' from DER, 529' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.5 NM from DER, 16' left of centerline, up to 100' AGL/2579' MSL. Trees beginning 2.3 NM from DER, 723' right of centerline, up to 100' AGL/2499' MSL. **Rwy 3R**, hangar, NDB, and trees beginning 92' from DER, 269' right of centerline, up to 100' AGL/2040' MSL. Trees beginning 4685' from DER, 1033' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.6 NM from DER, 525' left of centerline, up to 100' AGL/2559' MSL. Trees and transmission poles beginning 2.6 NM from DER, 214' right of centerline, up to 150' AGL/2570' MSL. **Rwy 21L**, elevator, pole on building and trees beginning 315' from DER, 302' left of centerline, up to 140' AGL/2080' MSL. **Rwy 21R**, poles and trees beginning 188' from DER, 13' right of centerline, up to 100' AGL/1982' MSL. Elevator, pole, hangar, and building beginning 203' from DER, 1' left of centerline, up to 140' AGL/2080' MSL. Terrain and trees beginning 3.1 NM from DER, 4904' left of centerline, up to 100' AGL/2559' MSL.

SPOKANE INTL (GEG)

AMDT 5 10154 (FAA)

DEPARTURE PROCEDURE: **Rwys 3, 25**, climbing left turn direct GEG VORTAC, thence... **Rwys 7, 21**, climbing right turn direct GEG VORTAC, thence... continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeast bound V120-448, 5200; eastbound V2, 5200; southeast through westbound climb on course.

NOTE: **Rwy 3**, multiple trees beginning 1089' from DER, 666' left of centerline, up to 100' AGL/2370' MSL. Tree 1524' from DER, 851' right of centerline, 100' AGL/2374' MSL. **Rwy 21**, pole 2655' from DER, 1122' left of centerline, 42' AGL/2446' MSL. Tree 3391' from DER, 1315' right of centerline, 100' AGL/2466' MSL.

STEVENSVILLE, MT

STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSOR-163. **Rwy 30**, do not exceed 210 knots until established on MSOR-160.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 335 and MSOR-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30**, climbing right turn via heading 025° and MSO R-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR

SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36**, 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36**, climb direct to DSD VORTAC. Then all aircraft climb on course.

TACOMA, WA

TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17**, turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35**, turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A, B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C, D 2600-3 or std. with a min. climb of 475' per NM to 3100. **Rwy 7**, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2, 7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. All aircraft intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR

TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500.

DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

TORRINGTON, WY

TORRINGTON MUNI (TOR)
ORIG 10042 (FAA)

NOTE: **Rwy 2**, terrain 30' from DER, 277' left of centerline, 4197' MSL. **Rwy 10**, multiple trees and fence beginning 71' from DER, 143' right of centerline, up to 14' AGL/4214' MSL. Terrain 14' from DER, 502' left of centerline, 4199' MSL. **Rwy 28**, terrain 133' from DER, 386' right of centerline, 4213' MSL.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL
TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWF R-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWF VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)
AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions.

Rwy 26, 600-3 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...

Rwy 26, climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...

...continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL. **Rwy 26**, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2, 7, 20, 25, 34**, turn left. **Rwy 16**, turn right. **All aircraft** climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)
ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 3900 before proceeding on course. **Rwy 30**, climb heading 301° to 4000 before proceeding on course

...for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12**, tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30**, tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900.

Rwys 25, 30, CAT A,B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C,D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25, 30**, climbing left turn. **All aircraft** climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CWR-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CWR-2007400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH: **Rwy 1**, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right. **All aircraft** climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8**, climbing left turn to 9000 via heading 030° to intercept IIP VOR/ DME R-140 to JEZZY Int, thence... **Rwy 26**, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to JEZZY INT, thence...

...continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8**, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL.

Rwy 26, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/ lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD)

(NUW)

OK HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7**:

Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25**: Climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS**: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE:

Rwy 7: Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25**: Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS**: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy 7**: Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA.

Rwy 16, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CW R-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

YAKIMA AIR TERMINAL/MCALLISTER FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, NA. **Rwy 9**, 800-4 or std. with a min. climb of 300' per NM to 5000. **Rwys 22, 27**, 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4**, NA. **Rwys 9, 22, 27**, Use ZILLA DEPARTURE PROCEDURE.

VOR/DME CPN 111.6 Chan 53	APP CRS 307°	Rwy Idg TDZE Apt Elev	N/A N/A 5030
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VOR/DME or GPS-A

ANACONDA/ BOWMAN FIELD (3U3)

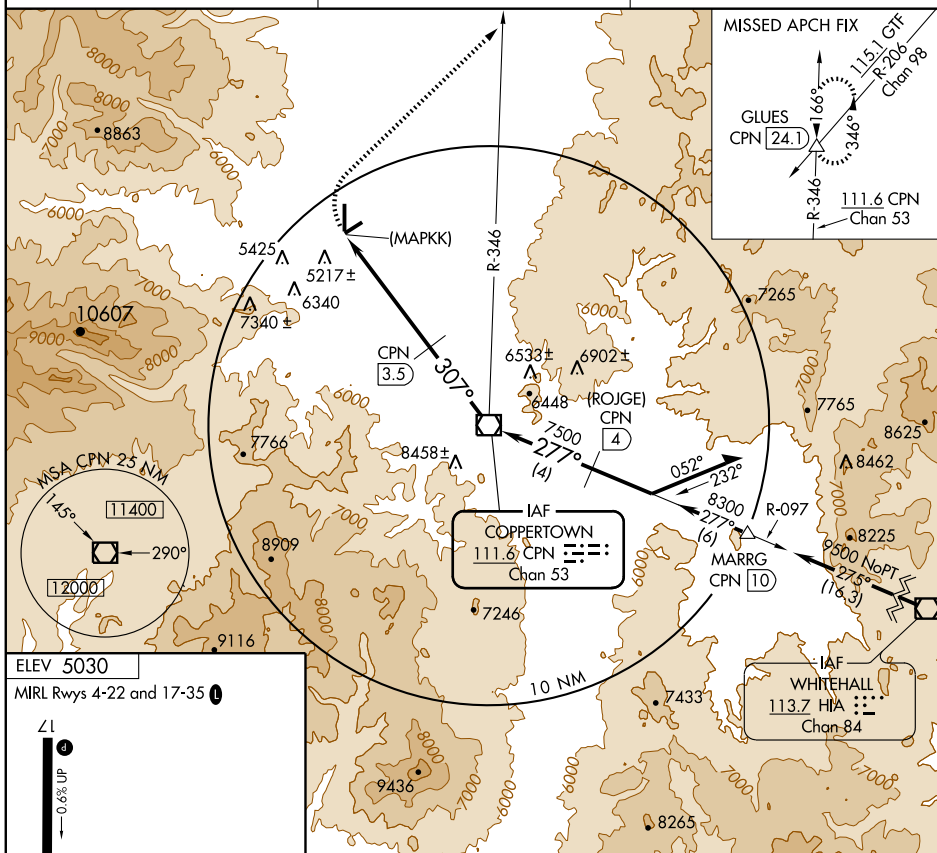
T	Use Butte (BTM) altimeter setting; when not received,
A NA	procedure NA.

MISSED APPROACH: Climbing right turn to 9200 via heading 030° to intercept CPN R-346 to GLUES and hold.

AWOS-A
122.8 L

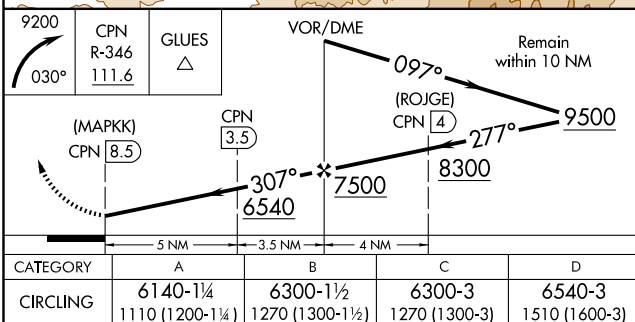
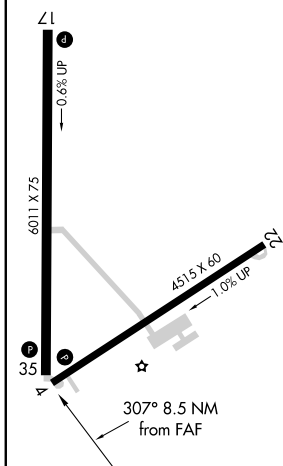
SALT LAKE CENTER
132.4 338.3

UNICOM
122.8 (CTAF) **L**



ELEV 5030

MIRL Rwy 4-22 and 17-35



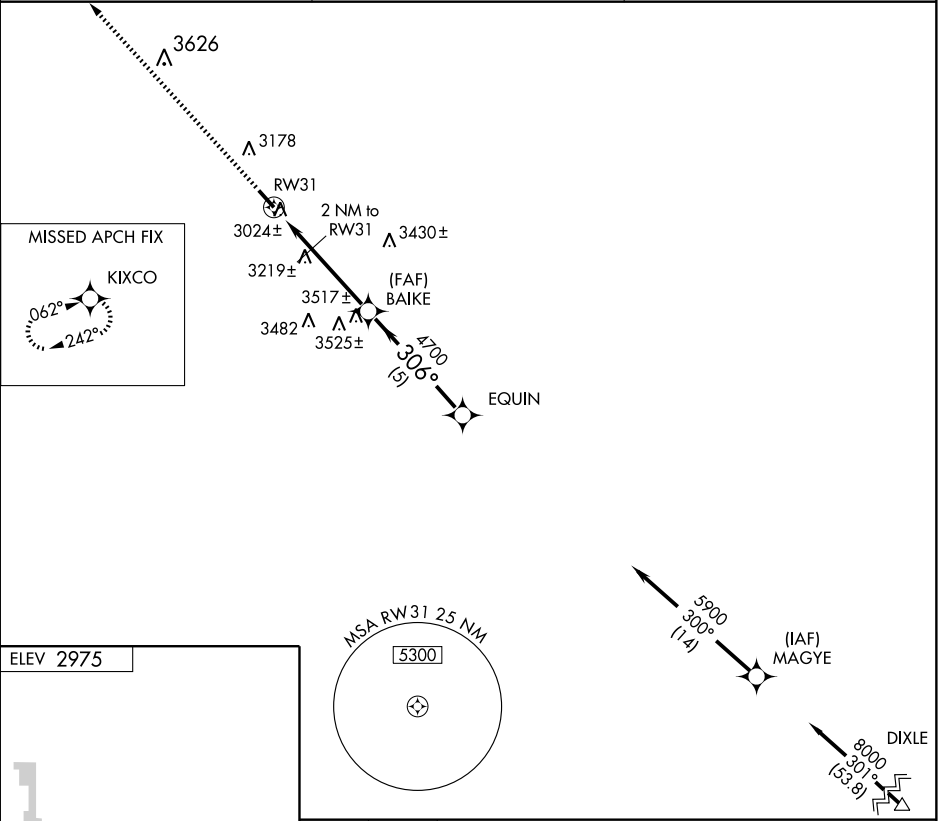
GPS RWY 31
BAKER MUNI (BHK)

APP CRS	Rwy Idg	4898
306°	TDZE	2975
	Apt Elev	2975


NA

MISSED APPROACH: Climb to 6000 direct KIXCO WP and hold.

ASOS 135.475	SALT LAKE CENTER 126.85 305.2	CTAF 122.9
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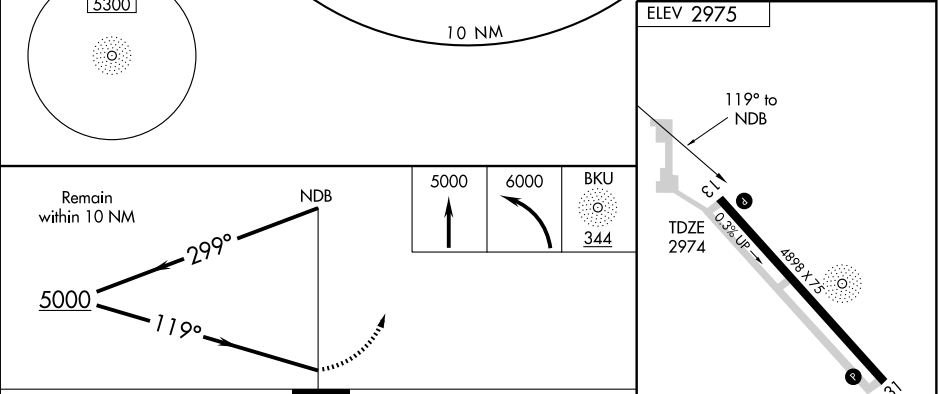
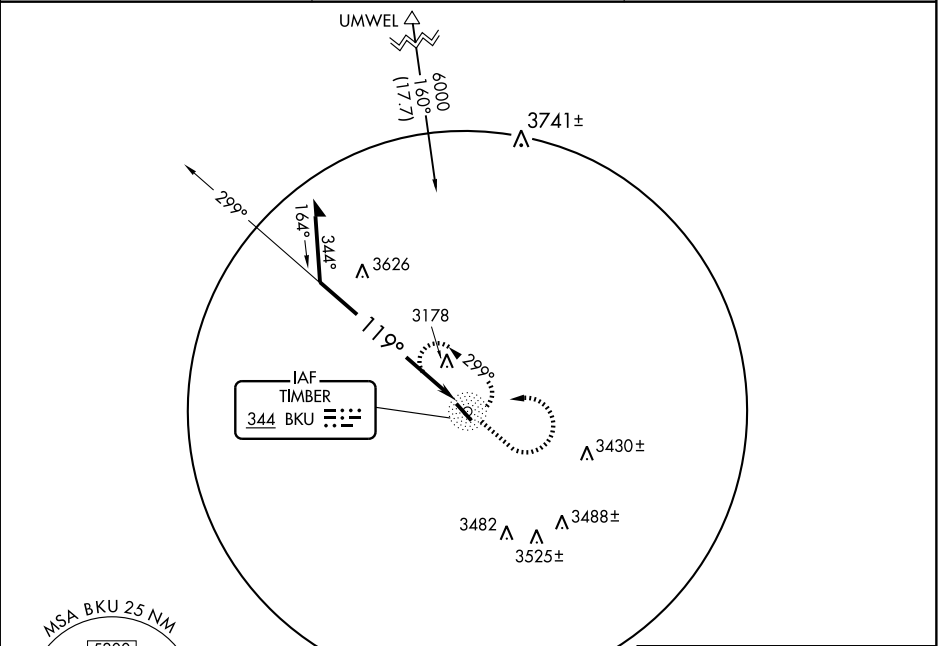
6000 KIXCO		EQUIN			
2 NM to RW31		BAIKE			
RW31		306° 5900			
3640		TCH 31 ≤ 3.20°			
2 NM		3 NM		5 NM	
CATEGORY	A	B	C	D	
S-31	3500-1	525 (600-1)	3500-1½ 525 (600-1½)	3500-1¾ 525 (600-1¾)	
CIRCLING	3560-1	585 (600-1)	3560-1½ 585 (600-1½)	3560-2 585 (600-2)	

NDB RWY 13
BAKER MUNI (BHK)

NDB BKU 344	APP CRS 119°	Rwy Idg TDZE Apt Elev	4898 2974 2975
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MISSED APPROACH: Climb to 5000, then climbing left turn to 6000 direct BKU NDB and hold.

ASOS 135.475	SALT LAKE CENTER 126.85 305.2	CTAF 122.9
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CATEGORY	A	B	C	D
S-13	3980-1 ¼ 1006 (1100-1 ¼)	3980-1 ½ 1006 (1100-1 ½)	3980-3	1006 (1100-3)
CIRCLING	3980-1 ¼ 1005 (1100-1 ¼)	3980-1 ½ 1005 (1100-1 ½)	3980-3	1005 (1100-3)

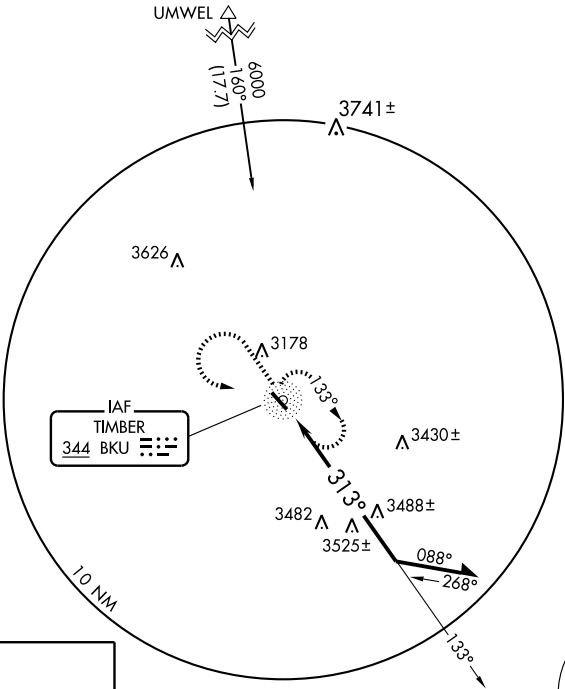
MIRL Rwy 13-31

NDB RWY 31
BAKER MUNI (BHK)

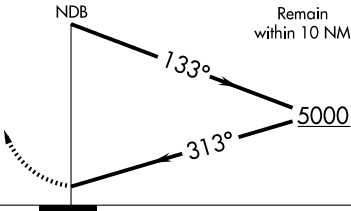
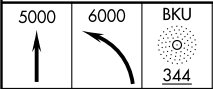
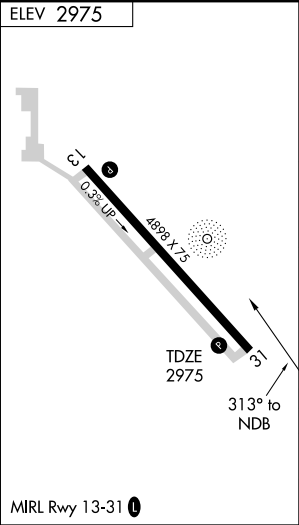
NDB BKU 344	APP CRS 313°	Rwy Idg TDZE Apt Elev	4898 2975 2975
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MISSED APPROACH: Climb to 5000, then climbing left turn to 6000 direct BKU NDB and hold.

ASOS 135.475	SALT LAKE CENTER 126.85 305.2	CTAF 122.9
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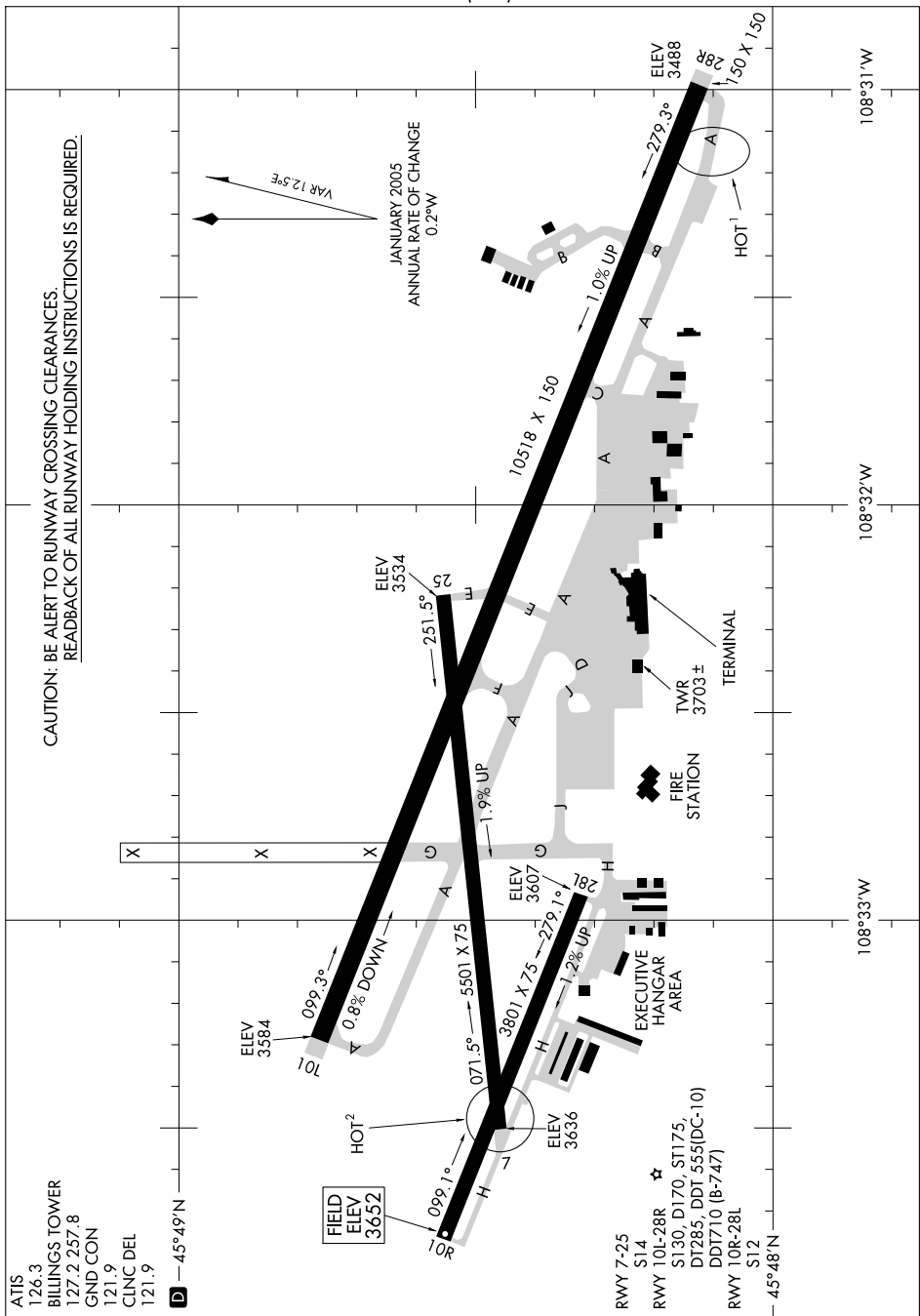
ELEV 2975



CATEGORY	A	B	C	D
S-31	3880-1 ¼ 905 (1000-1 ¼)		3880-2 ¾ 905 (1000-2 ¾)	3880-3 905 (1000-3)
CIRCLING	3880-1 ¼ 905 (1000-1 ¼)		3880-2 ¾ 905 (1000-2 ¾)	3880-3 905 (1000-3)

AIRPORT DIAGRAM

AL-48 (FAA)

BILLINGS LOGAN INTL (BIL)
BILLINGS, MONTANA

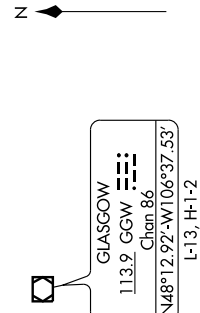
NW-1, 03 JUN 2010 to 01 JUL 2010

BILLINGS TWO DEPARTURE

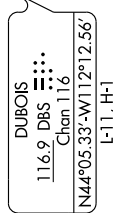
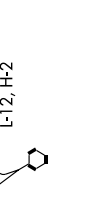
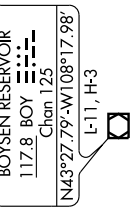
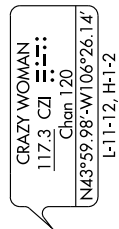
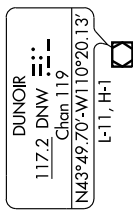
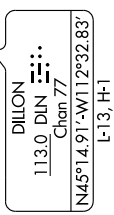
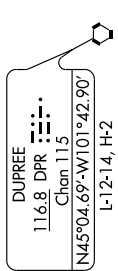
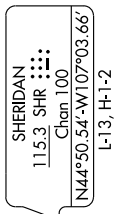
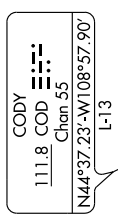
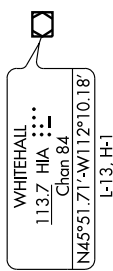
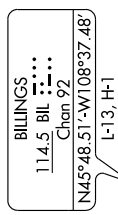
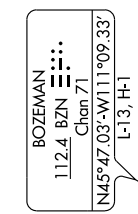
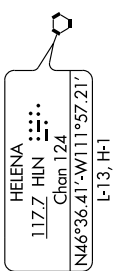
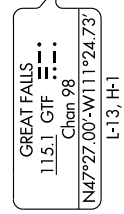
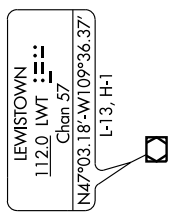
SL-48 (FAA)

BILLINGS LOGAN INTL (BIL.)
BILLINGS, MONTANA

ATS 126.3
CLNC DEL 121.9
GND CON 121.9
BILLINGS DEP CON 120.5



NOTE: Takeoff on Runways 7, 10R, and 10L requires a minimum climb of 260 feet per NM to 4500 feet.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

ALL RUNWAYS: Fly assigned heading for vectors to assigned fix/route. Maintain 12,000 feet or assigned lower altitude. Expect clearance to filed altitude/flight level within 40 NM of BIL VORTAC.

LOST COMMUNICATIONS: If no transmissions are received for 1 minute after departure, fly last assigned heading until reaching 7000 feet. Proceed direct BIL VORTAC, then via last routing cleared and climb to filed altitude.

LOCALIZER I-BIL

110.3

APCH CR
098°

Rwy Idg	10,518
TDZE	3584
Arpt Elev	3652

JAL-48 [USAF]

BILLINGS LOGAN INTL (KBIL)



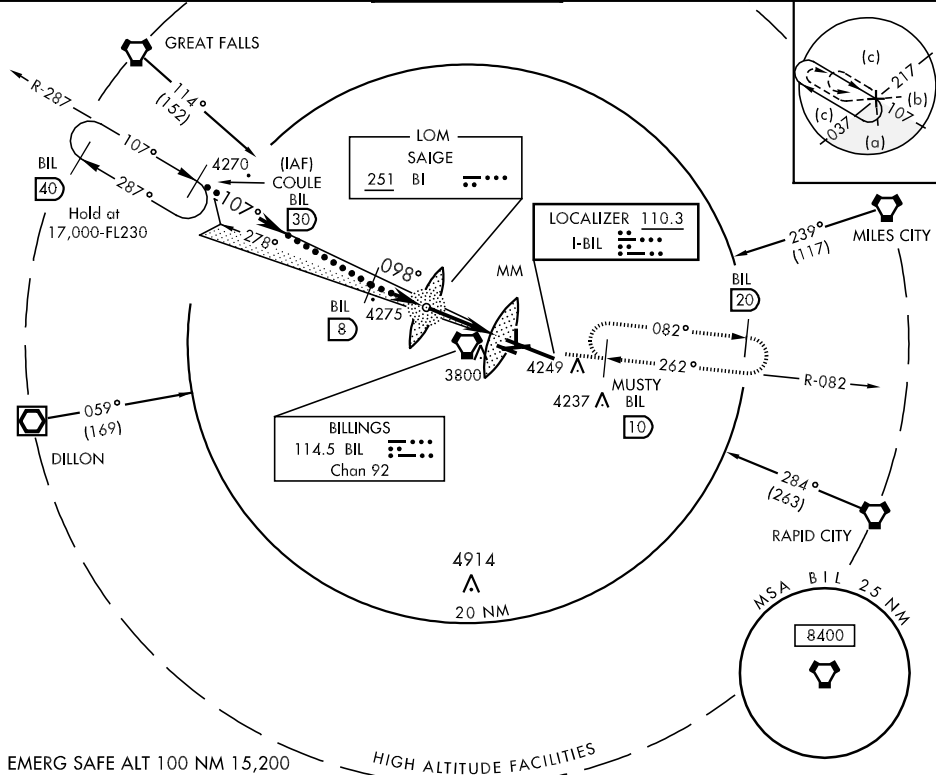
MISSED APPROACH: Climb to 5700 via BIL R-082 to MUSTY/10 DME and hold.

ATIS
126.3

BILLINGS APP CON
120.5 284.6

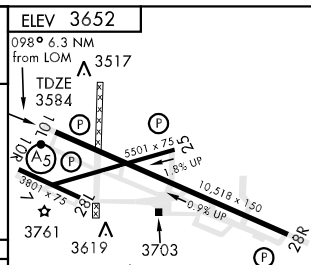
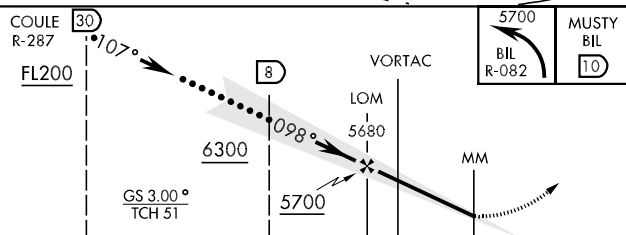
BILLINGS TOWER
127.2 257.8

GND CON
121.9

CLNC DEL
121.9

EMERG SAFE ALT 100 NM 15,200

HIGH ALTITUDE FACILITIES



CATEGORY	C	D	E
S-ILS 10L	3784/24	200 (200-½)	
S-LOC 10L	4100/50 516 (500-1)	4100/60 516 (500-1¼)	
CIRCLING	4180-1½ 528 (600-1½)	4220-2 568 (600-2)	4580-3 928 (1000-3)

REIL Rwy 25 and 28R					
HIRL Rwy 10L-28R					
MIRL Rwy 7-25 and 10R-28L					
FAF to MAP 6.3 NM					
Knots	120	140	160	180	200
Min:Sec	3:09	2:42	2:22	2:06	1:53

BILLINGS, MONTANA

45°48'N-108°32'W

BILLINGS LOGAN INTL (KBIL)

Amdt 2 08213

LIU, H. C. 2004. 101

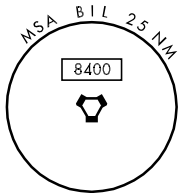
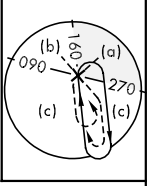
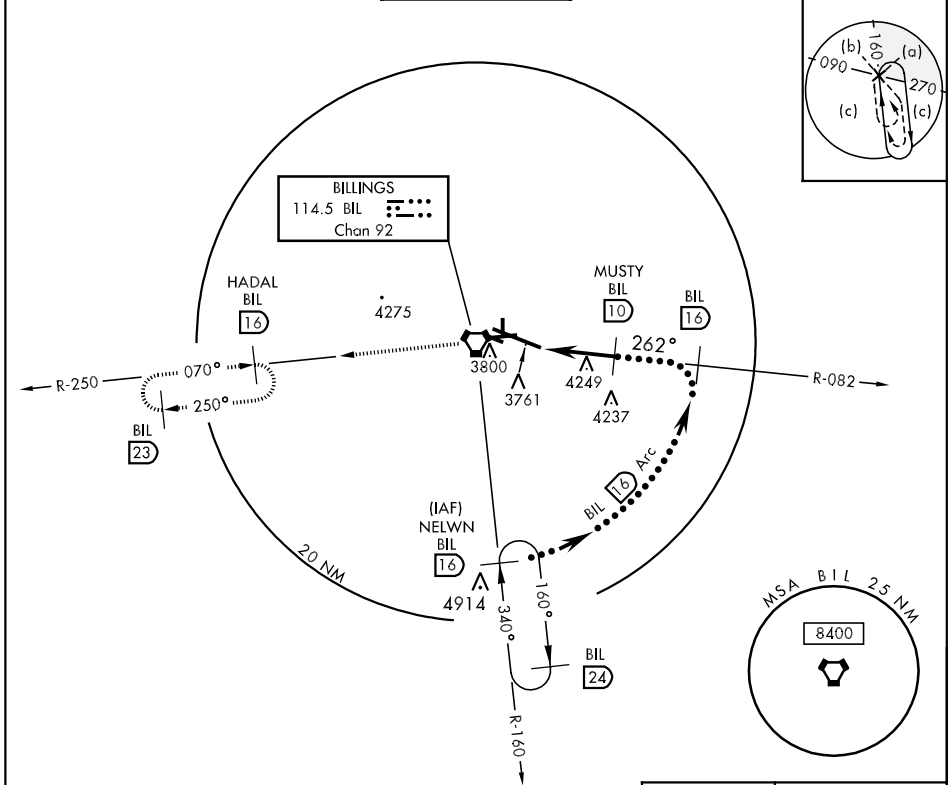
BILLINGS 114.5 Chan 92	APCH CRS 262°	Rwy Idg 10,518 TDZE 3517 Arpt Elev 3652
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JAL-48 [USAF]

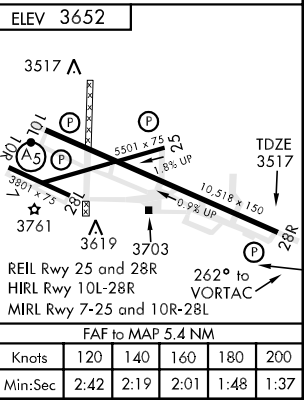
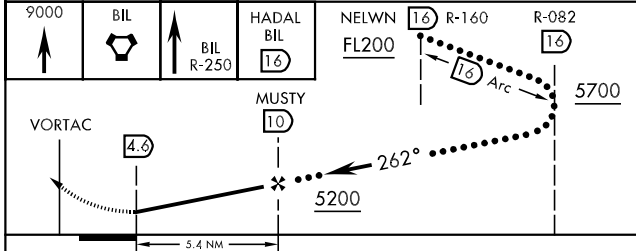
BILLINGS LOGAN INTL (KBIL)

▼ MISSED APPROACH: Climb to 9000 direct BIL VORTAC then via R-250 to HADAL/16 DME and hold.

ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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EMERG SAFE ALT 100 NM 15,200



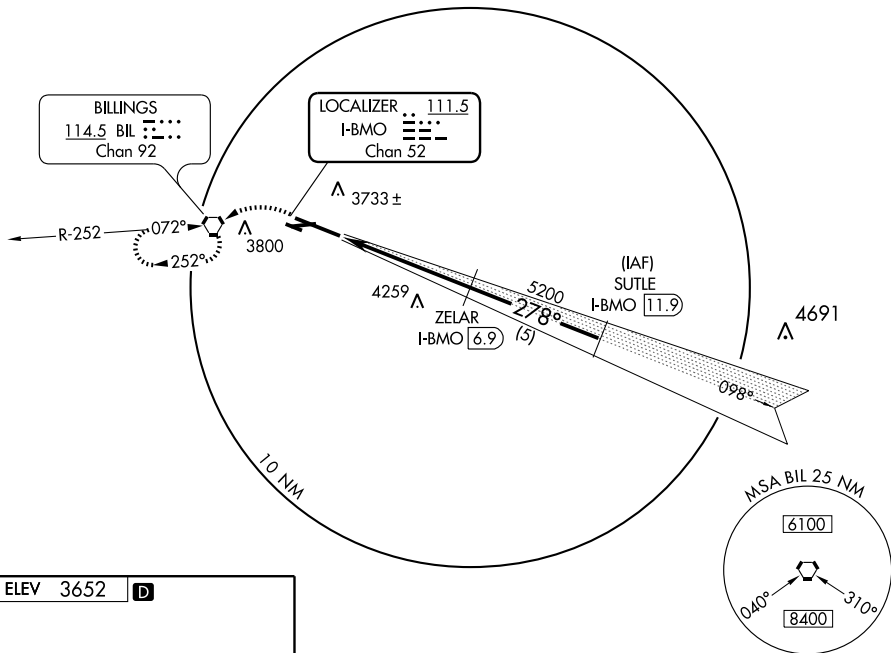
CATEGORY	C	D	E
S-28R	3940-1 1/4 423 (300-1 1/4)		3940-1 1/2 423 (300-1 1/2)
CIRCLING	4180-1 1/2 528 (600-1 1/2)	4220-2 568 (600-2)	4580-3 928 (1000-3)

NW-1: 03 JUN 2010 to 01 JUL 2010

	MISSED APPROACH: Climb to 4300 then climbing left turn to 6000 direct BIL VORTAC and hold.
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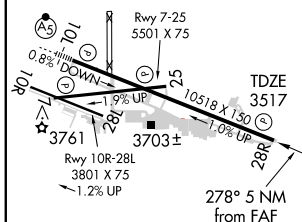
CLNC DEL
121.9

RADAR REQUIRED



NW-1. 03 JUN 2010 to 01 JUL 2010

D



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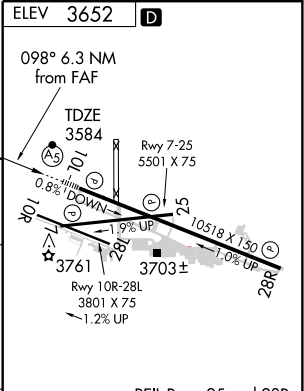
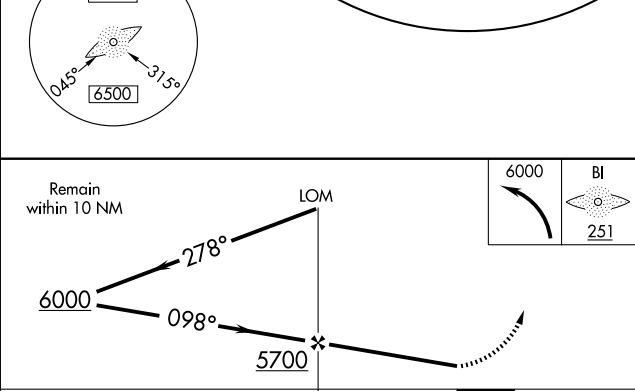
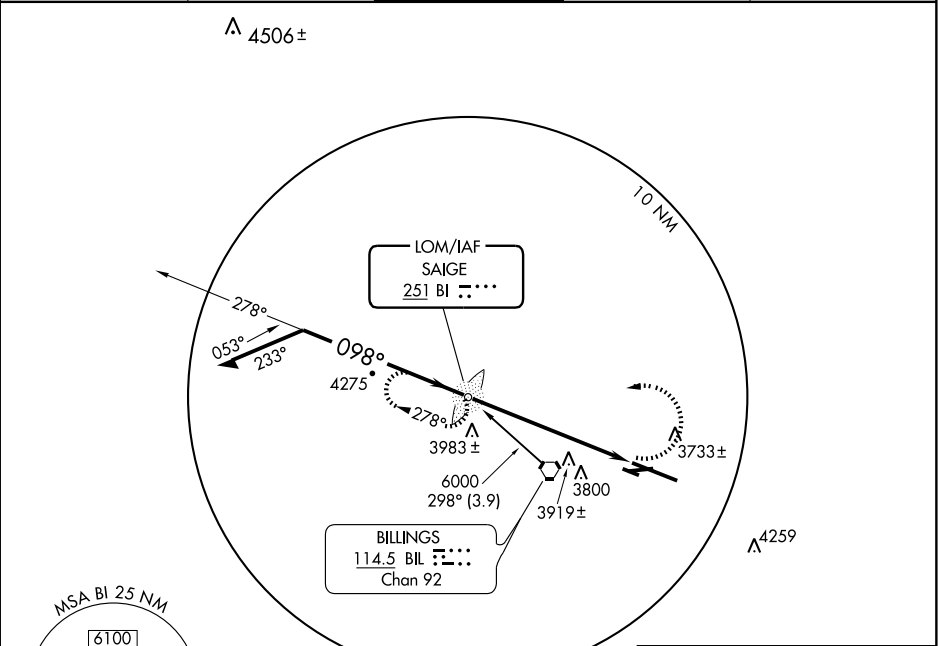
MIRL Rwy's 7-25 and 10R-28L

LOM BI 251	APP CRS 098°	Rwy Idg TDZE Apt Elev	10518 3584 3652
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NDB RWY 10L
BILLINGS LOGAN INTL (BIL)

	MALSR 	MISSED APPROACH: Climbing left turn to 6000 direct Saige LOM and hold.
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ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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CATEGORY	A	B	C	D
S-10L	4300/40 716 (700-¾)		4300-1½ 716 (700-1½)	4300-2 716 (700-2)
CIRCLING	4300-1 648 (700-1)		4300-2 648 (700-2)	4300-2¼ 648 (700-2¼)

REIL Rwy 25 and 28R HIRL Rwy 10L-28R MIRL Rwy 7-25 and 10R-28L					
FAF to MAP 6.3 NM					
Knots	60	90	120	150	180
Min:Sec	6:18	4:12	3:09	2:31	2:06

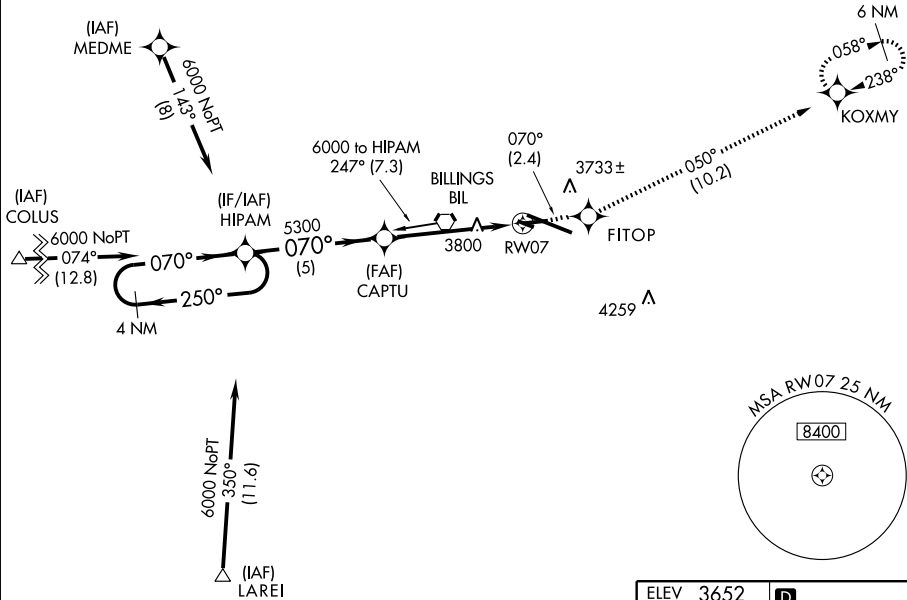
RNAV (GPS) RWY 7
BILLINGS LOGAN INTL (BIL)

APP CRS	Rwy Idg	5501
070°	TDZE	3636
	Apt Elev	3652

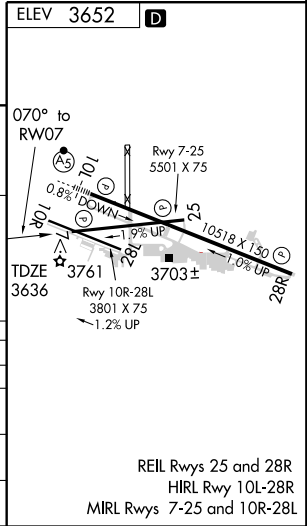
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 41°C (105°F).
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 6000 via 070° course to FITOP, then left turn via 050° course to KOXMY and hold.

ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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5148 ± △				
VGSI and descent angles not coincident.				
4 NM Holding Pattern				
6000 ← 250° 070° →				
GS 3.00° TCH 55				
5300				
*LNAV only				
5 NM				
3.3 NM				
1.7 NM				
CATEGORY	A	B	C	D
GLS PA DA	NA			
LNAV/VNAV DA	4209-2 573 (600-2)			
LNAV MDA	4220-1 584 (600-1)	4220-1 1/2 584 (600-1 1/2)	4220-1 3/4 584 (600-1 3/4)	
CIRCLING	4220-1 568 (600-1)	4220-1 1/2 568 (600-1 1/2)	4220-2 568 (600-2)	



WAAS CH 50122 W10A	APP CRS 098°	Rwy Idg 10518 TDZE 3584 Apt Elev 3652
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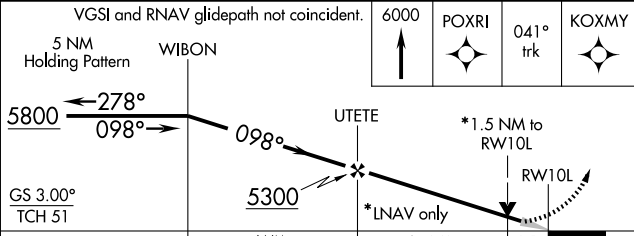
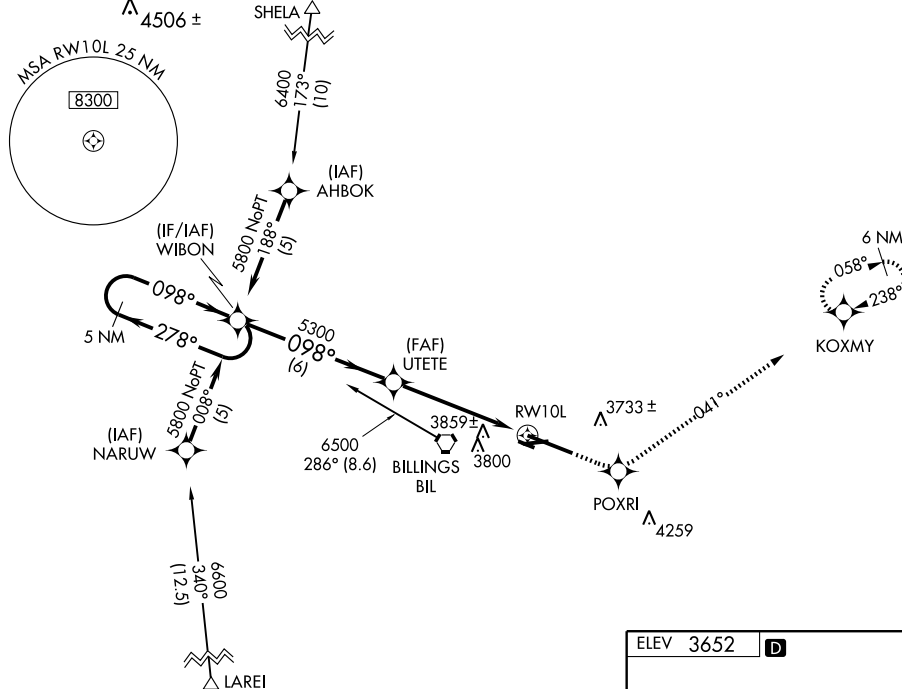
RNAV (GPS) RWY 10L
BILLINGS LOGAN INTL (BIL)

Baro-VNAV NA below -22°C (-7°F).
DME/DME RNP-0.3 NA.
Inoperative table does not apply to LNAV/VNAV.
For inoperative MALSR increase LPV visibility to RVR 6000 all Cats.

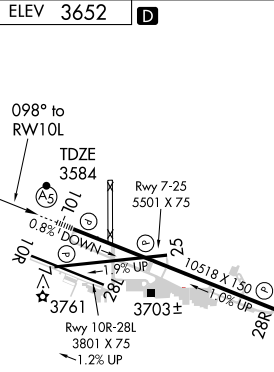


MISSED APPROACH: Climb to 6000 direct POXRI and via 041° track to KOXMY and hold.

ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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CATEGORY	A	B	C	D
LPV DA	3950/40 366 (300-¾)			
LNAV/VNAV DA	4200-2¼ 616 (600-2¼)			
LNAV MDA	4120/24	536 (500-½)	4120/50 536 (500-1)	4120/60 536 (500-1¼)
CIRCLING	4200-2¼ 548 (600-2¼)			4220-2¼ 568 (600-2¼)



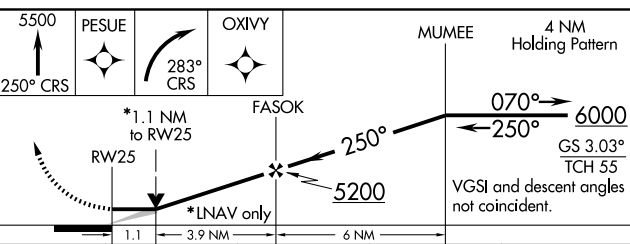
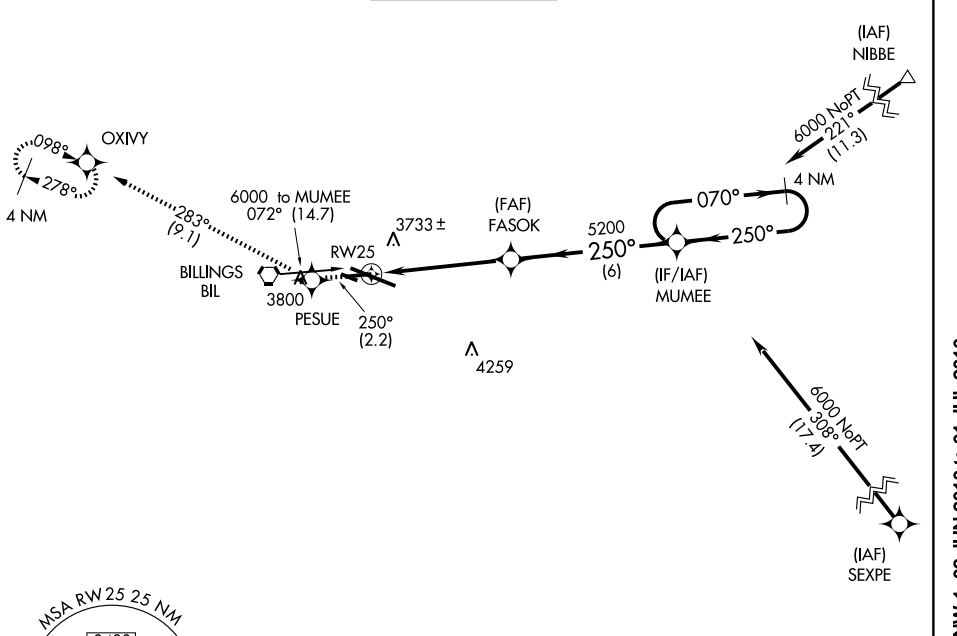
REIL Rwy 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwy 7-25 and 10R-28L

▼

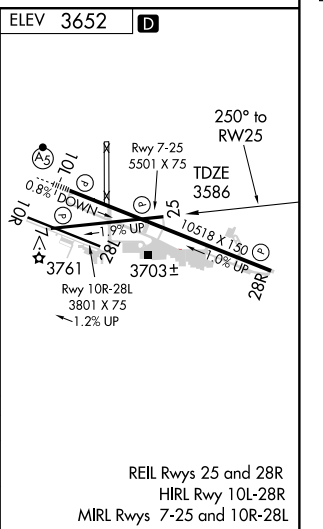
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 5500 via 250° course to PESUE WP then right turn via 283° course to OXIVY and hold.

ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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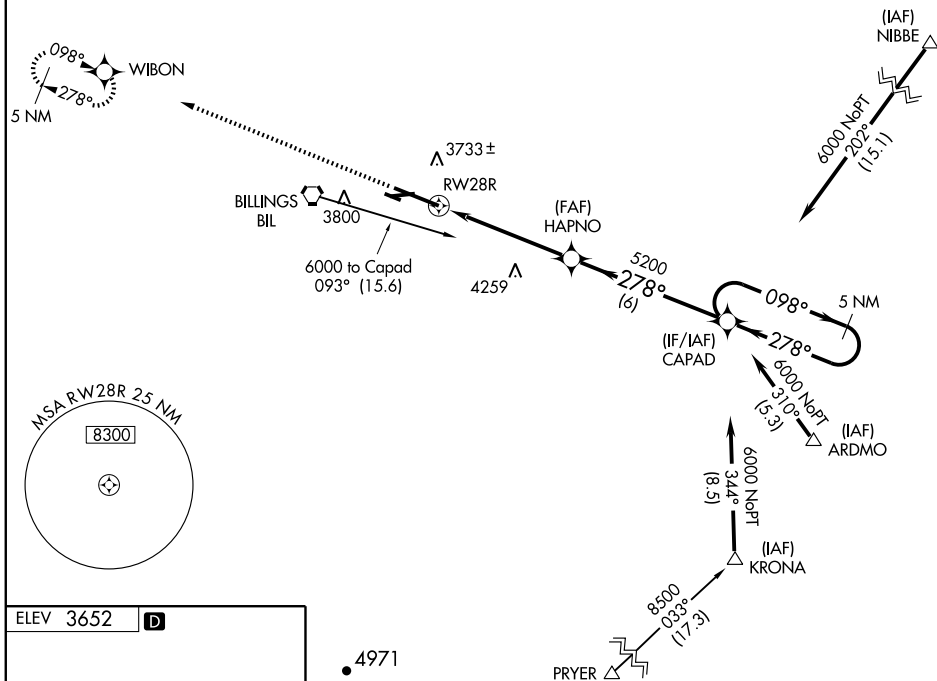


CATEGORY	A	B	C	D
RNAV MDA	4020-1	434 (400-1)	4020-1½ 434 (400-1½)	4020-1½ 434 (400-1½)
CIRCLING	4160-1½ 508 (600-1½)	4180-1½ 528 (600-1½)	4180-1½ 528 (600-1½)	4220-2 568 (600-2)



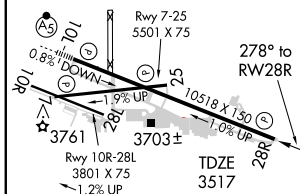
NW-1. 03 JUN 2010 to 01 JUL 2010

MISSED APPROACH: Climb to 5800 direct WIBON and hold.

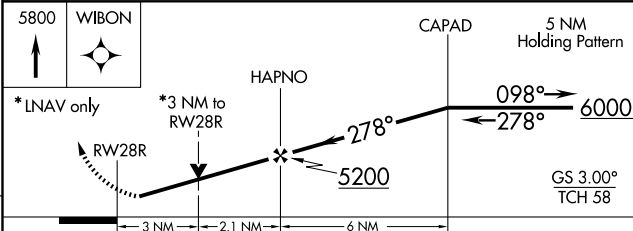
CLNC DEL
121.9

NW-1. 03 JUN 2010 to 01 JUL 2010

D



MIRL Rwy's 7-25 and 10R-28L



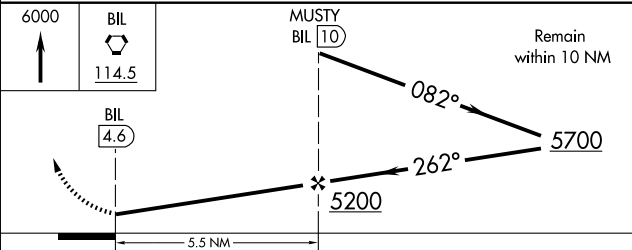
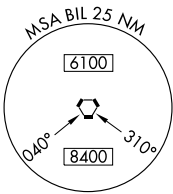
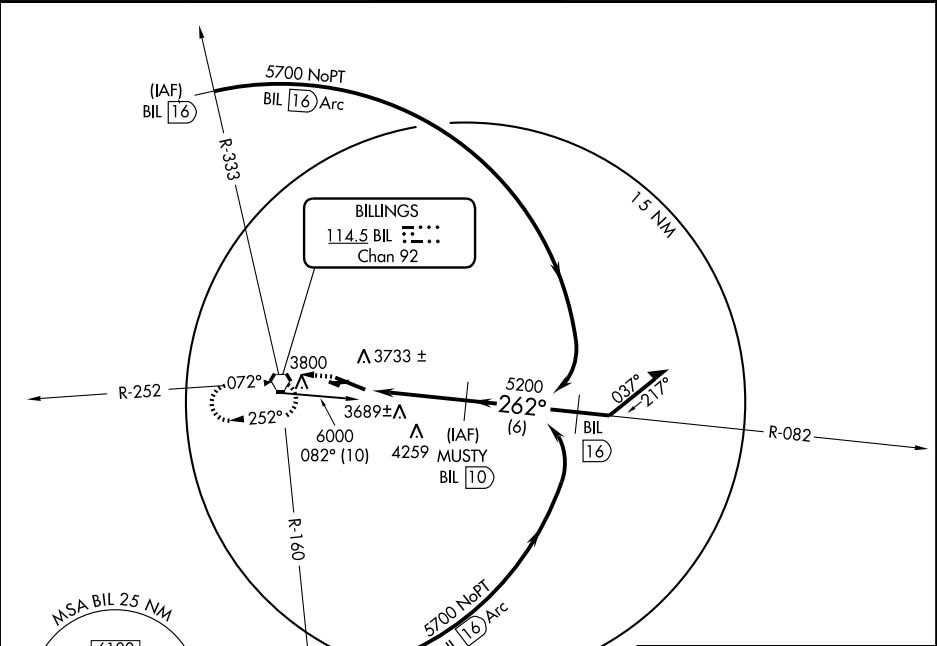
CATEGORY	A	B	C	D
LPV DA	3770-1 253 (200-1)			
LNAV/ VNAV DA	3840-1¼ 323 (200-1¼)			
LNAV MDA	4500-1¼ 983 (900-1¼)	4500-1½ 983 (900-1½)	4500-3	983 (900-3)
CIRCLING	4500-1¼ 848 (900-1¼)	4500-1½ 848 (900-1½)	4500-3	848 (900-3)

VORTAC BIL	APP CRS	Rwy Idg	10518
114.5	262°	TDZE	3517
Chan 92		Apt Elev	3652

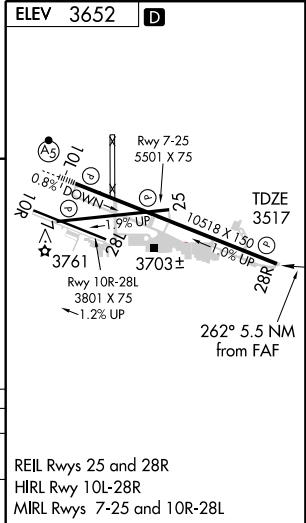
VOR/DME RWY 28R
BILLINGS LOGAN INTL (BIL)

	MISSED APPROACH: Climb to 6000 direct BIL VORTAC and hold.
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ATIS 126.3	BILLINGS APP CON 120.5 284.6	BILLINGS TOWER 127.2 257.8	GND CON 121.9	CLNC DEL 121.9
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CATEGORY	A	B	C	D
S-28R	4040-1	523 (400-1)	4040-1½ 523 (400-1½)	4040-1¾ 523 (400-1¾)
CIRCLING	4160-1 508 (600-1)	4180-1 528 (600-1)	4180-1½ 528 (600-1½)	4220-2 568 (600-2)



REIL Rwy 25 and 28R
HIRL Rwy 10L-28R
MIRL Rwy 7-25 and 10R-28L

VORTAC BIL 114.5 Chan 92	APP CRS 072°	Rwy Idg TDZE Apt Elev	N/A N/A 3652
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VOR or GPS-A
BILLINGS LOGAN INTL (BIL)

MISSED APPROACH: Climbing left turn to 6000 direct BIL VORTAC and hold.

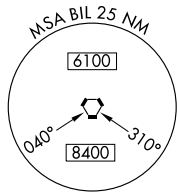
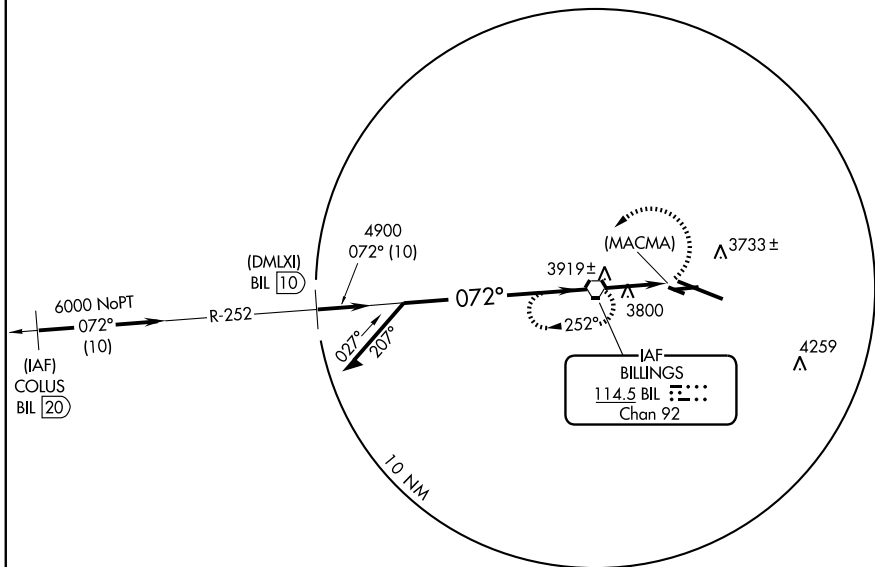
ATIS
126.3

BILLINGS APP CON
120.5 284.6

BILLINGS TOWER
127.2 257.8

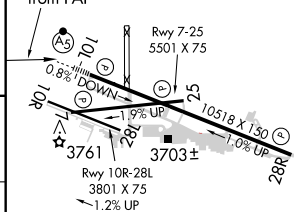
GND CON
121.9

CLNC DEL
121.9


$$5148 \pm \Delta$$

ELEV 3652

072° 2.6 NM
from EAF



REIL Rwys 25 and 28R

HIRL Rwy 10L-28R

MIRL Rwy 7-25 and 10R-28L

FAF to MAP 2.6 NM

Knots	60	90	120	150	180
Min:Sec	2:36	1:44	1:18	1:02	0:52

Remain
within 10 NM

VORTAC

6000

BIL

6000

(MACMA)
BII 26

DIL 2.0

- 2.6 NM

4180-1 528 (600-1)

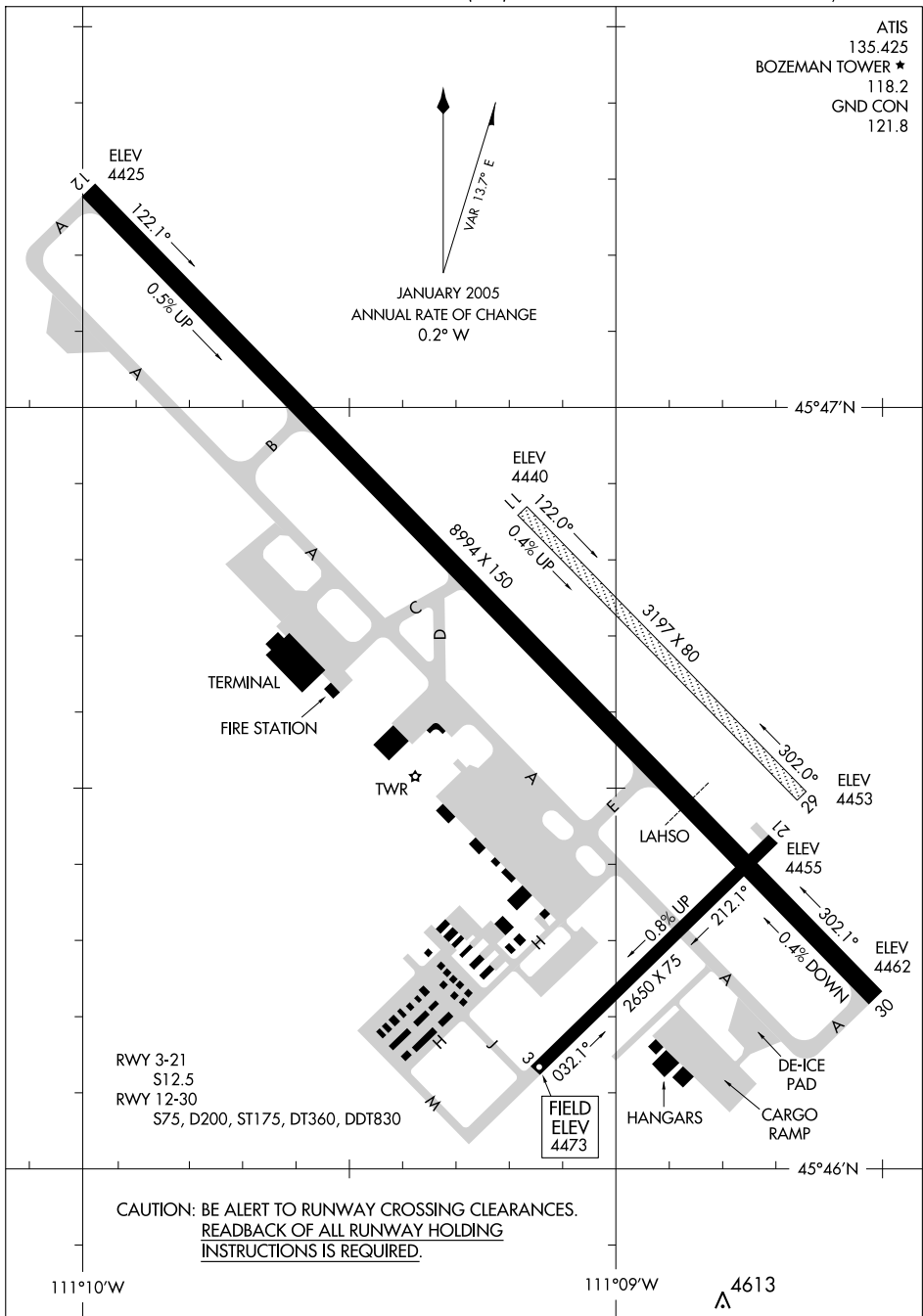
4180-1½
528 (600-1½)

4220-2
568 (600-2)

NW-1. 03 JUN 2010 to 01 JUL 2010

AIRPORT DIAGRAM

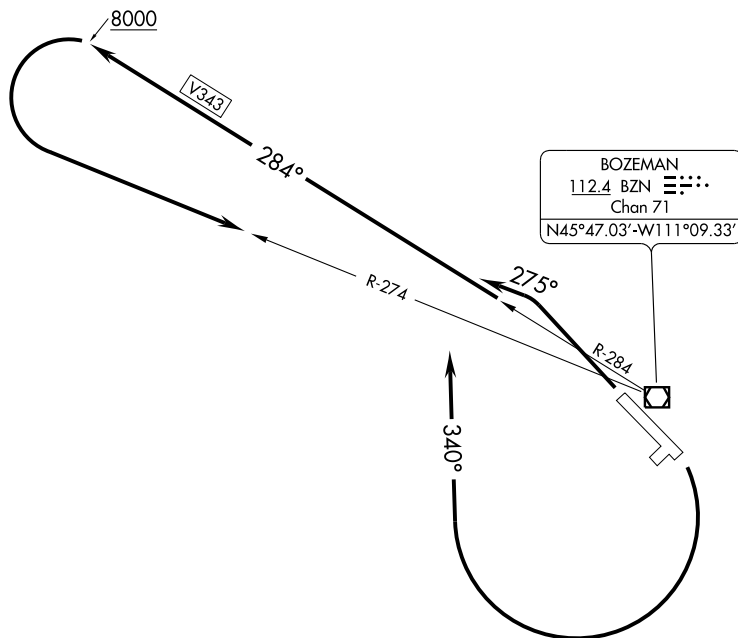
AL-59 (FAA)

BOZEMAN/GALLATIN FIELD (BZN)
BOZEMAN, MONTANA

NW-1, 03 JUN 2010 to 01 JUL 2010

BOZEMAN ONE DEPARTURE (OBSTACLE)

ATIS 135.425
GND CON
121.8
BOZEMAN TOWER ★
118.2 (CTAF)
SALT LAKE CITY CENTER
132.4 338.3



TAKE-OFF MINIMUMS

Rwy 3, 21: NA - ATC.

Rwy 12, 30: Standard

TAKE-OFF OBSTACLE NOTES

Rwy 30: Pole 636' from DER, 622' left of centerline, 62' AGL/4452' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 12: Climbing right turn heading 340° to intercept BZN R-284 outbound to 8000. Aircraft departing westbound via V343 climb on course, all others continue climbing left turn to intercept BZN R-274 to BZN VOR/DME, cross BZN VOR/DME at or above MCA or MEA for route of flight.

TAKE-OFF RUNWAY 30: Climbing left turn heading 275° to intercept BZN R-284 outbound to 8000. Aircraft departing westbound via V343 climb on course, all others continue climbing left turn to intercept BZN R-274 to BZN VOR/DME, cross BZN VOR/DME at or above MCA or MEA for route of flight.

LOC I-BZN	APP CRS	Rwy Idg	8994
109.3	118°	TDZE	4439
		Apt Elev	4474

BOZEMAN/GALLATIN FIELD (BZN)

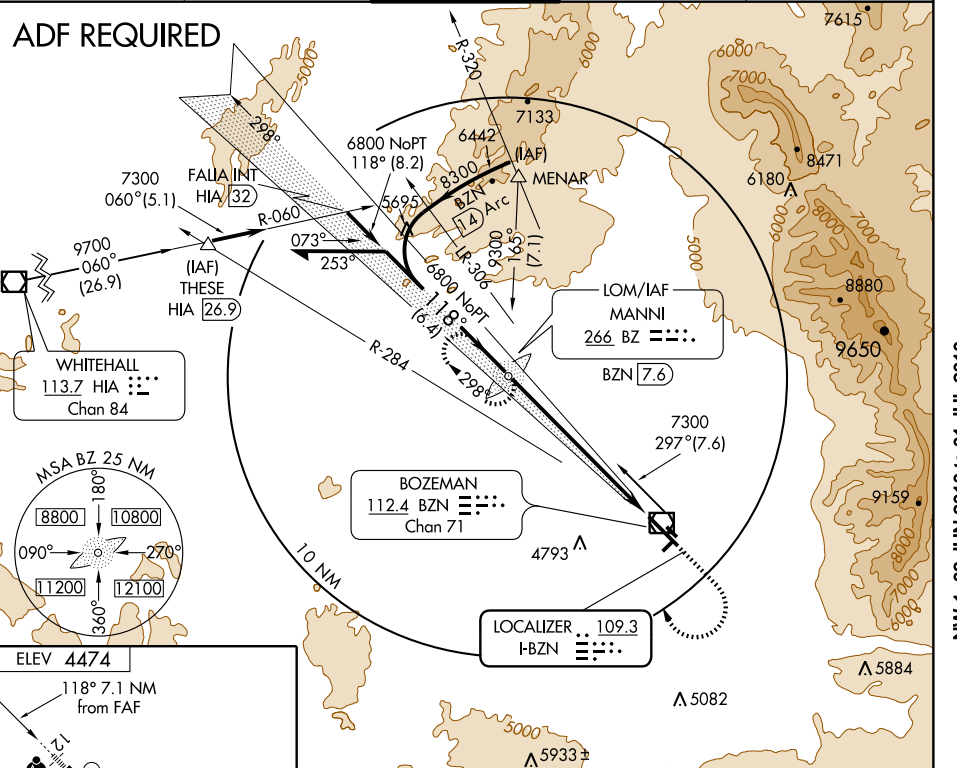
⚠

Increase S-LOC 12 Cat D visibility ¼ mile for inoperative MALSR.

MALSR

MISSED APPROACH: Climb to 5000, then climbing right turn to 8000 direct BZ LOM and hold.

ATIS 135.425	SALT LAKE CENTER 132.4 338.3	BOZEMAN TOWER★ 118.2 (CTAF) 0	GND CON 121.8	UNICOM 122.95
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ELEV 4474

118° 7.1 NM from FAF

TDZE 4439

4609 TWR

4613

REIL Rwy 30

HIRL Rwy 12-30

FAF to MAP 7.1 NM

Knots	60	90	120	150	180
Min:Sec	7:06	4:44	3:33	2:50	2:22

Remain within 10 NM

7300

118°

6800

GS 3.00° TCH 53

7.1 NM

5000

8000

BZ 266

5000

8000

BZ 266

CATEGORY	A	B	C	D
S-ILS 12	4650-½ 211 (200-½)			
S-LOC 12	4760-½ 321 (300-½)			4760-¾ 321 (300-¾)
CIRCLING	4940-1 466 (500-1)		4940-1½ 466 (500-1½)	5040-2 566 (600-2)

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	N/A
298°	TDZE	N/A
	Apt Elev	4474

RNAV (GPS)-A

BOZEMAN/GALLATIN FIELD (BZN)



GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.



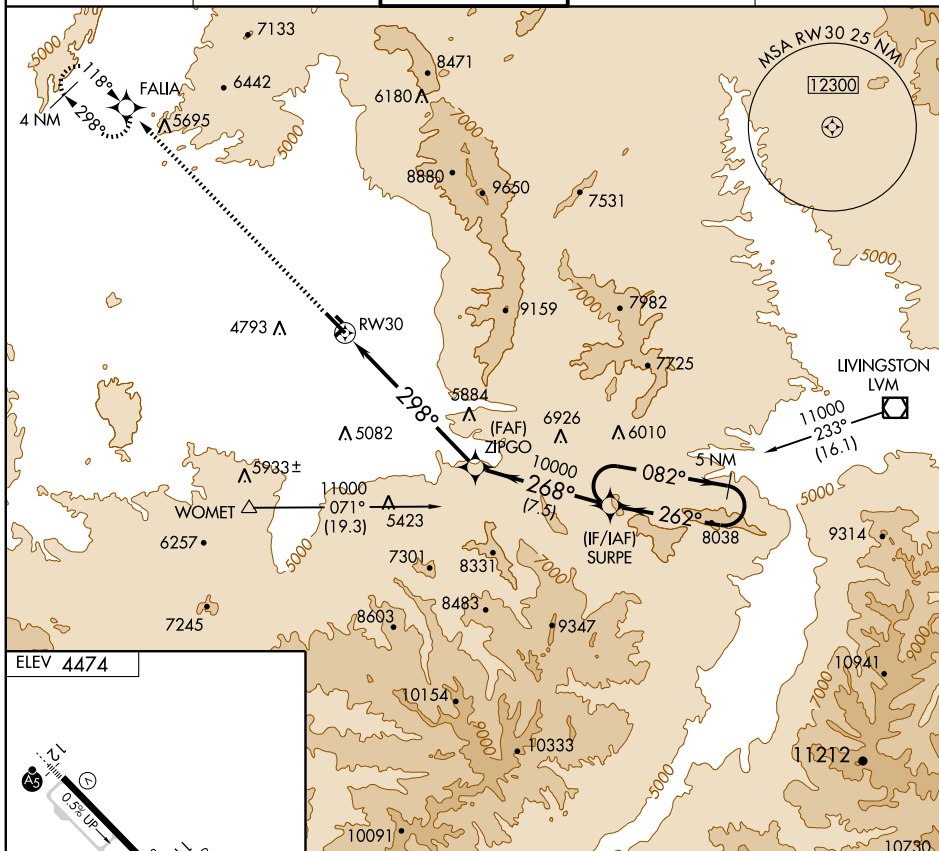
MISSED APPROACH: Climb to 10000 direct FALIA WP and hold.

ATIS
135.425

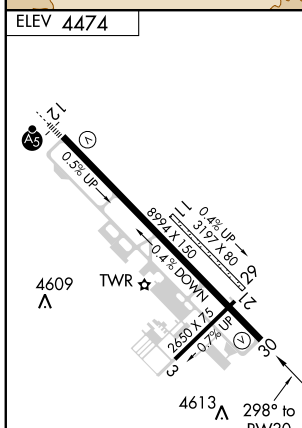
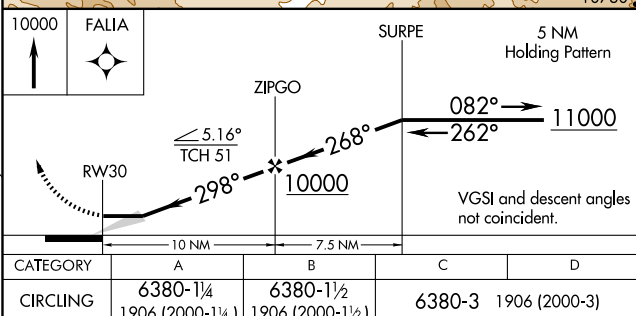
SALT LAKE CENTER
132.4 338.3

BOZEMAN TOWER★
118.2 (CTAF) L

GND CON
121.8

UNICOM
122.95

NW-1. 03 JUN 2010 to 01 JUL 2010

REIL Rwy 30 **L**HIRL Rwy 12-30 **L**

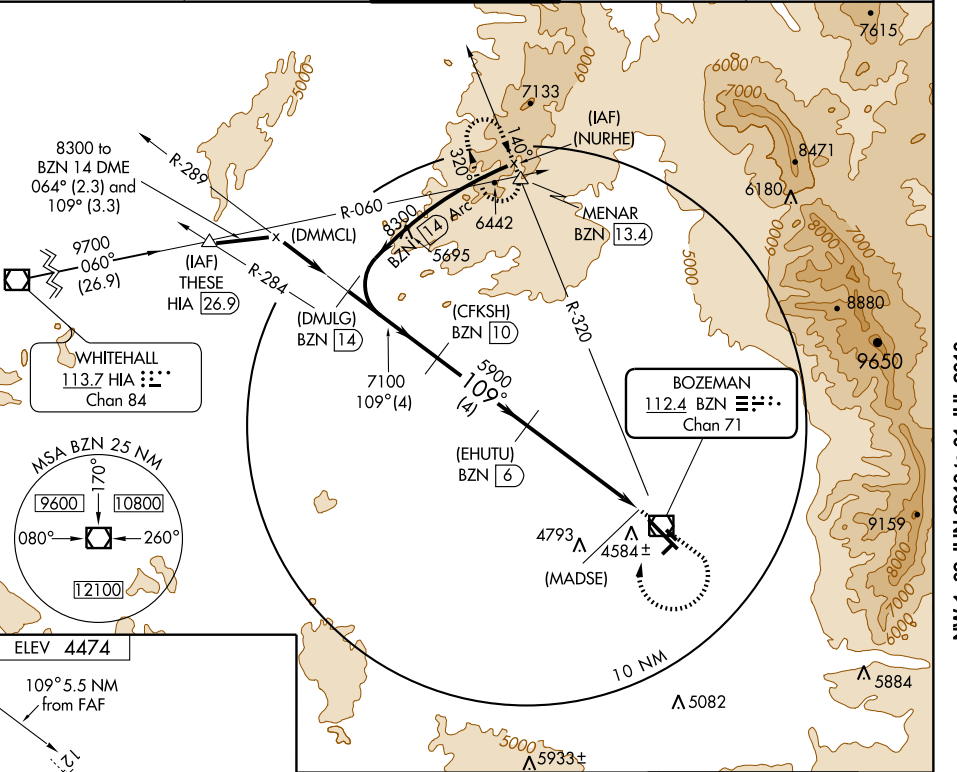
VOR/DME BZN	APP CRS	Rwy Idg	8994
112.4	109°	TDZE	4439
Chan 71		Apt Elev	4474

▼

MALSR

MISSED APPROACH: Climb to 5300, then a climbing right turn to 9200 via heading 350° to intercept BZN R-320, then via BZN R-320 to MENAR Int and hold.

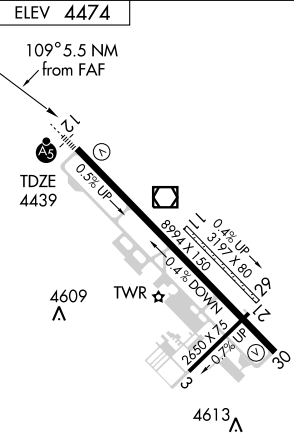
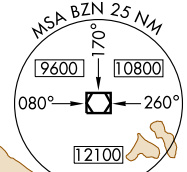
ATIS 135.425	SALT LAKE CENTER 132.4 338.3	BOZEMAN TOWER★ 118.2 (CTAF) 0	GND CON 121.8	UNICOM 122.95
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WHITEHALL

113.7 HIA

Chan 84



<div><div>5300</div><div>9200</div><div>BZN R-320</div><div>MENAR</div></div>				
<div><div>(DMJLG) BZN 14</div><div>(CFKSH) BZN 10</div><div>(EHUTU) BZN 6</div><div>Procedure Turn NA</div></div>				
<div><div>8300</div><div>7100</div><div>5900</div><div>109°</div></div>				
<div><div>4 NM</div><div>4 NM</div><div>5 NM</div><div>0.5</div></div>				
CATEGORY	A	B	C	D
S-12	4900-1/2	461 (500-1/2)	4900-3/4 461 (500-3/4)	4900-1 461 (500-1)
CIRCLING	4940-1	466 (500-1)	4940-1 1/2 466 (500-1 1/2)	5040-2 566 (600-2)

VOR/DME BZN 112.4 Chan 71	APP CRS 101°	Rwy Idg 8994 TDZE 4439 Apt Elev 4474
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VOR RWY 12
BOZEMAN/GALLATIN FIELD (BZN)

T	Inoperative table does not apply.
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MALSR

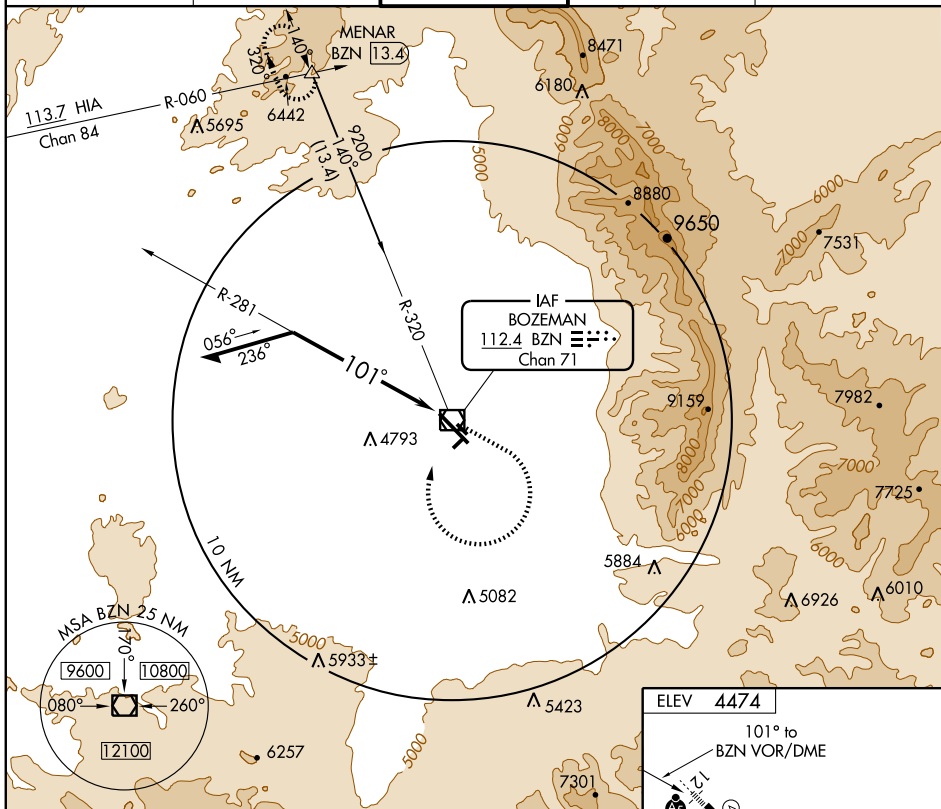
MISSED APPROACH: Climb to 5300, then climbing right turn to 9200 via heading 350° to intercept BZN R-320, then via BZN R-320 to MENAR Int and hold.

ATIS
135.425

SALT LAKE CENTER
132.4 338.3

BOZEMAN TOWER★
118.2 (CTAF) L

GND CON
121.8

UNICOM
122.95

Remain
within 10 NM

* VOR/DME

5300

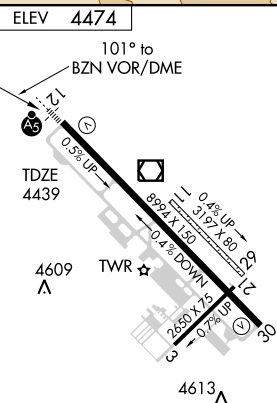
920

MENAR

Diagram showing a line segment labeled 6200 and an angle of 101° .

* Maintain 7000 or above until established outbound for procedure turn.

CATEGORY	A	B	C	D
S-12	5240-1 801 (800-1)	5240-1 ¼ 801 (800-1 ¼)	5240-2 ¼ 801 (800-2 ¼)	5240-2 ½ 801 (800-2 ½)
CIRCLING	5240-1 766 (800-1)	5240-1 ¼ 766 (800-1 ¼)	5240-2 ¼ 766 (800-2 ¼)	5240-2 ½ 766 (800-2 ½)

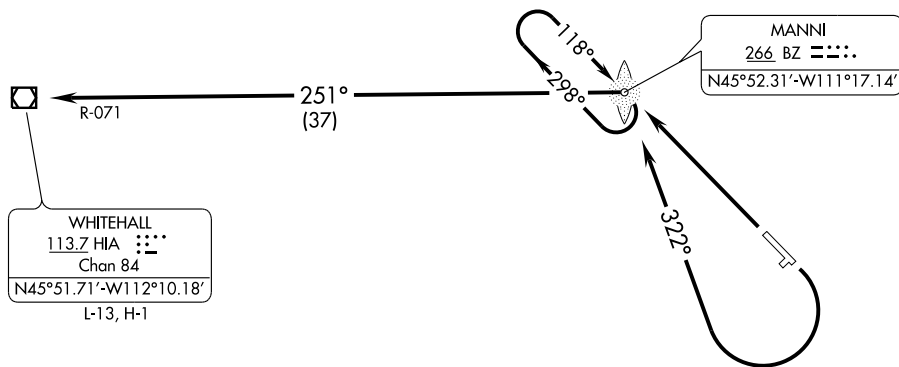
REIL Rwy 30 **L**HIRE BUY 12-30

WHITEHALL ONE DEPARTURE

BOZEMAN/ GALLATIN FIELD (BZN)
BOZEMAN, MONTANA

SL-59 (FAA)

ATIS 135.425
 GND CON
 121.8
 BOZEMAN TOWER ★
 118.2 (CTAF)
 SALT LAKE CITY CENTER
 132.4 338.3



NOTE: ADF REQUIRED

TAKE-OFF MINIMUMS

Rwy 3, 21: NA - ATC.

Rwy 12: Standard

Rwy 30: Standard with minimum climb of 294' per NM to 6500.

TAKE-OFF OBSTACLE NOTES

Rwy 30: Pole 636' from DER, 622' left of centerline, 62' AGL/4452' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 12: Climbing right turn to intercept 322° course to MANNI LOM. Climb in MANNI LOM holding pattern to at or above 8500, then intercept HIA R-071 to HIA VOR/DME, cross HIA VOR/DME at or above MCA or MEA for route of flight.

TAKE-OFF RUNWAY 30: Climbing left turn direct MANNI LOM. Climb in MANNI LOM holding pattern to at or above 8500, then intercept HIA R-071 to HIA VOR/DME, cross HIA VOR/DME at or above MCA or MEA for route of flight.

LOC/DME I-BEY 110.9 Chan 46	APP CRS 151°	Rwy Idg TDZE Apt Elev 9001 5523 5550
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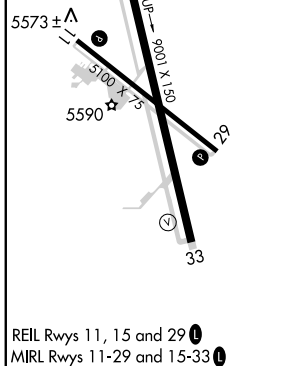
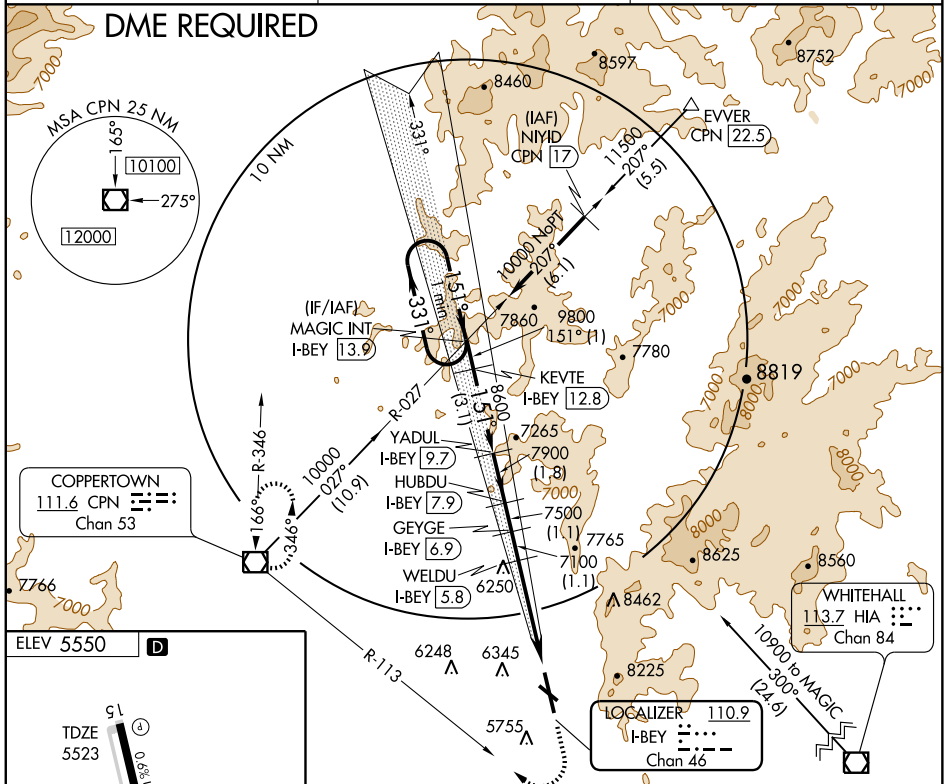
ILS Y RWY 15

BUTTE/ BERT MOONEY (BTM)

⚠ Circling NA northeast of Rwy 15-33.
⚠ When glideslope not used, use LOC/DME RWY 15 procedure.
 Circling requires descent on glideslope to MDA.
 Autopilot coupled approach NA.

MISSED APPROACH: Climb to 7300 then climbing right turn to 9100 via CPN VOR/DME R-113 to CPN VOR/DME and hold.

ASOS 135.175	SALT LAKE CENTER 132.4 338.3	UNICOM 123.0(CTAF) 0
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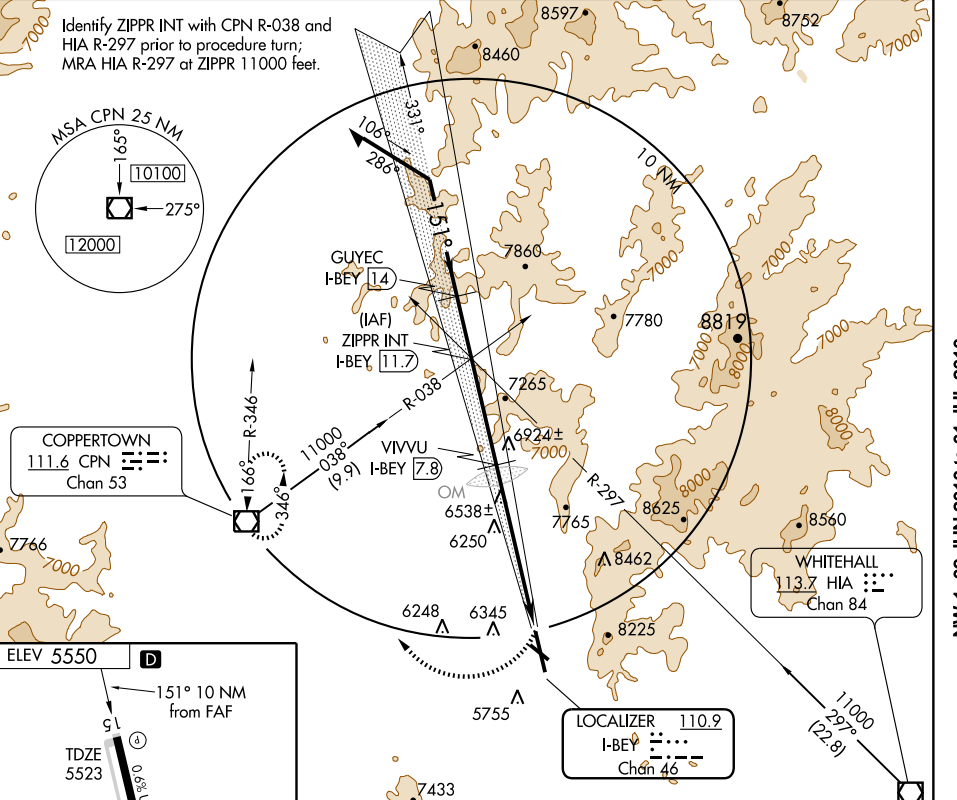
Circling not authorized NE of Rwy 15-33.
 If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing right turn to 9200 direct CPN VOR/DME and hold.

ASOS
135.175

SALT LAKE CENTER
132.4 338.3

UNICOM
123.0(CTAF)



Remain within 10 NM

ZIPPR INT I-BEY 11.7

9200 CPN 111.6

10000

331° GUYEC I-BEY 14

151°

9600

9200

7780

3.43° TCH 55

VIVVU I-BEY 7.8

I-BEY 5.1

I-BEY 1.7

2.3 NM

3.9 NM

2.7 NM

3.3 NM

CATEGORY	A	B	C	D
S-LOC 15	6800-1¼ 1277 (1300-1¼)	6800-1½ 1277 (1300-1½)	6800-3	1277 (1300-3)
CIRCLING	6800-1¼ 1250 (1300-1¼)	6800-1½ 1250 (1300-1½)	6800-3	1250 (1300-3)

REIL Rwy 11, 15 and 29
 MRL Rwy 11-29 and 15-33

NW-1, 03 JUN 2010 to 01 JUL 2010

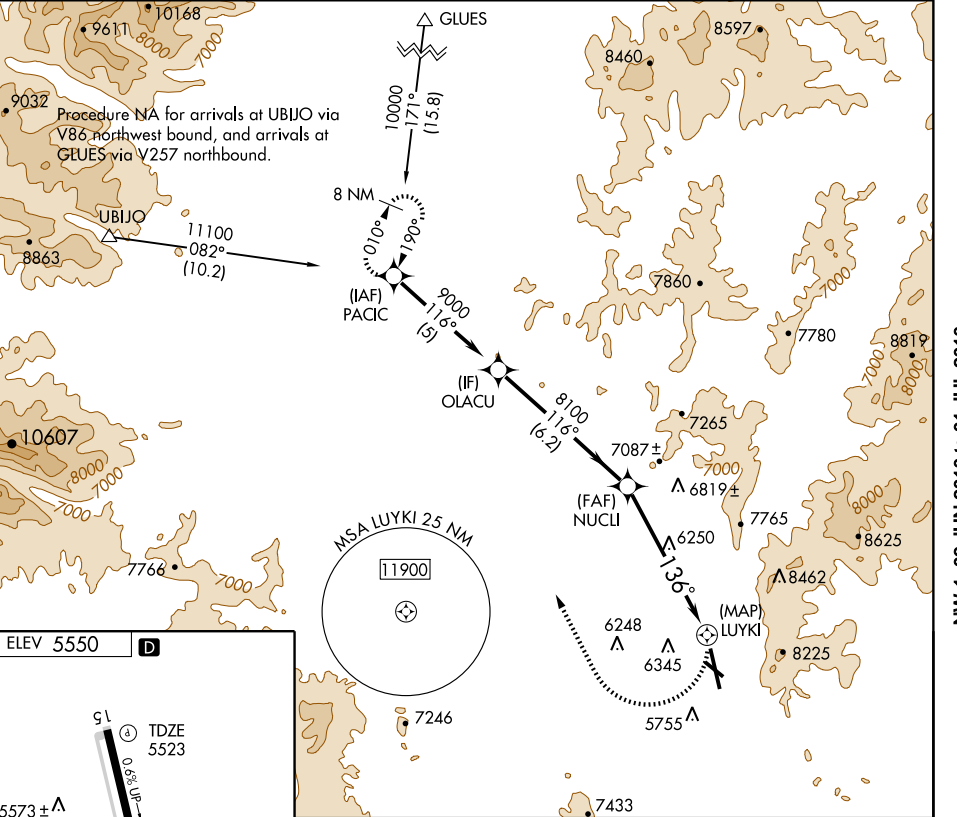
⚠

⚠

Circling NA northeast of Rwy 15-33.
DME/DME RNP -0.3 NA.
Visibility reduction by helicopters NA.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing right turn to 10000 direct PACIC and hold.

ASOS 135.175	SALT LAKE CENTER 132.4 338.3	UNICOM 123.0(CTAF)
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ELEV 5550

REIL Rwy 11, 15 and 29
MIRL Rwy 11-29 and 15-33

	OLACU		NUCU		10000	PACIC
	9000		8100			
	Procedure Turn NA		3.69° TCH 55		LUYKI	
	6.2 NM		6 NM		0.5	
CATEGORY	A	B	C	D		
LNNAV MDA	7040-1¼ 1517 (1500-1¼)	7040-1½ 1517 (1500-1½)	7040-3 1517 (1500-3)	NA		
CIRCLING	7040-1¼ 1490 (1500-1¼)	7040-1½ 1490 (1500-1½)	7040-3 1490 (1500-3)	1490 (1500-3)		

NW-1. 03 JUN 2010 to 01 JUL 2010

WAAS CH 50599 W15A	APP CRS 151°	Rwy Idg 9001 TDZE 5523 Apt Elev 5550
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RNAV (GPS) Z RWY 15

BUTTE/BERT MOONEY (BTM)



DME/DME RNP- 0.3 NA.

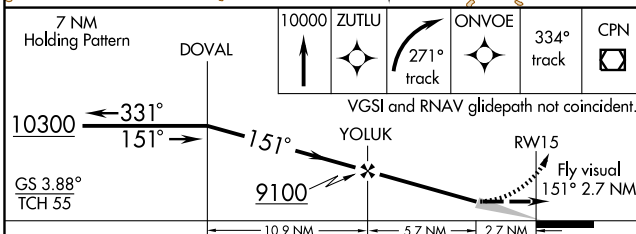
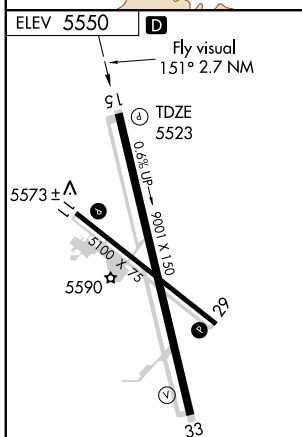
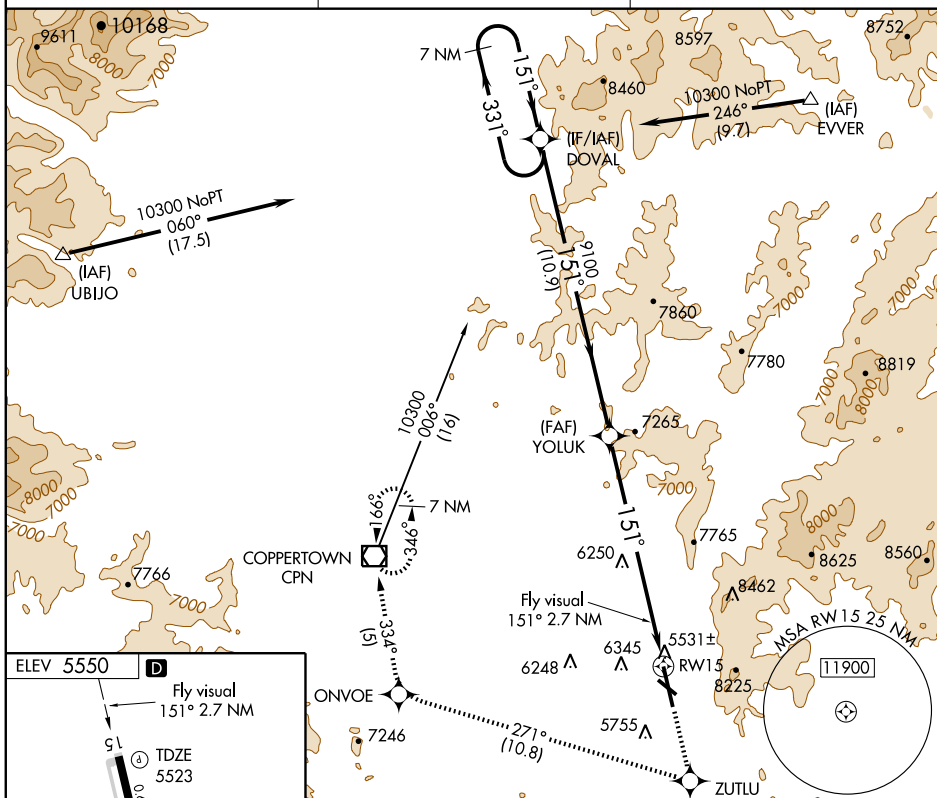
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 10000 direct ZUTLU and right turn via 271° track to ONVOE and via 334° track to CPN VOR/DME and hold, continue climb-in-hold to 10000.

ASOS
135.175

SALT LAKE CENTER
132.4 338.3

UNICOM
123.0 (CTAF) **L**



CATEGORY		A	B	C	D
LPV	DA	6660-2	1137 (1200-2)	NA	
LNAV/ VNAV	DA	NA			
LNAV MDA		NA			
CIRCLING		NA			

NW-1. 03 JUN 2010 to 01 JUL 2010

REIL Rwy 11, 15 and 29 **L**
MIRL Rwy 11-29 and 15-33 **L**

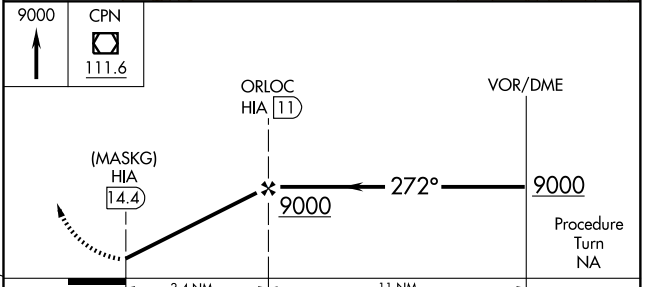
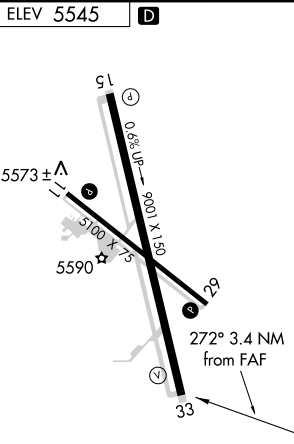
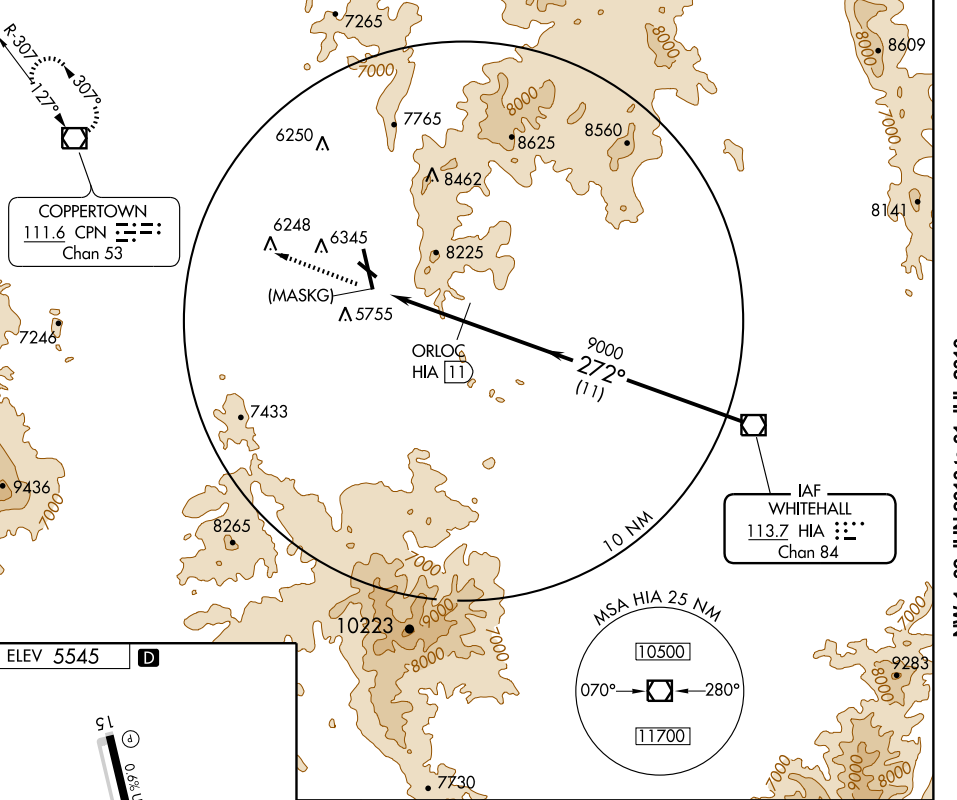
▼

▲

Circling NA northeast of Rwy 15-33.

MISSED APPROACH: Climb to 9000 direct CPN VOR/DME and hold.

ASOS 135.175	SALT LAKE CENTER 132.4 338.3	UNICOM 123.0(CTAF) 0
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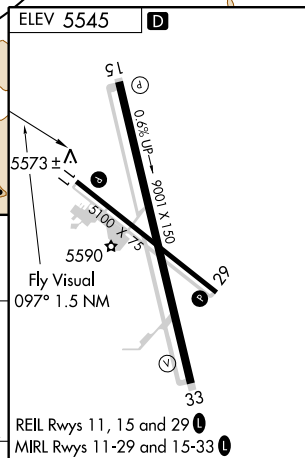
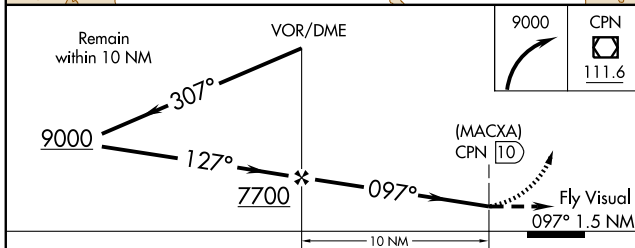
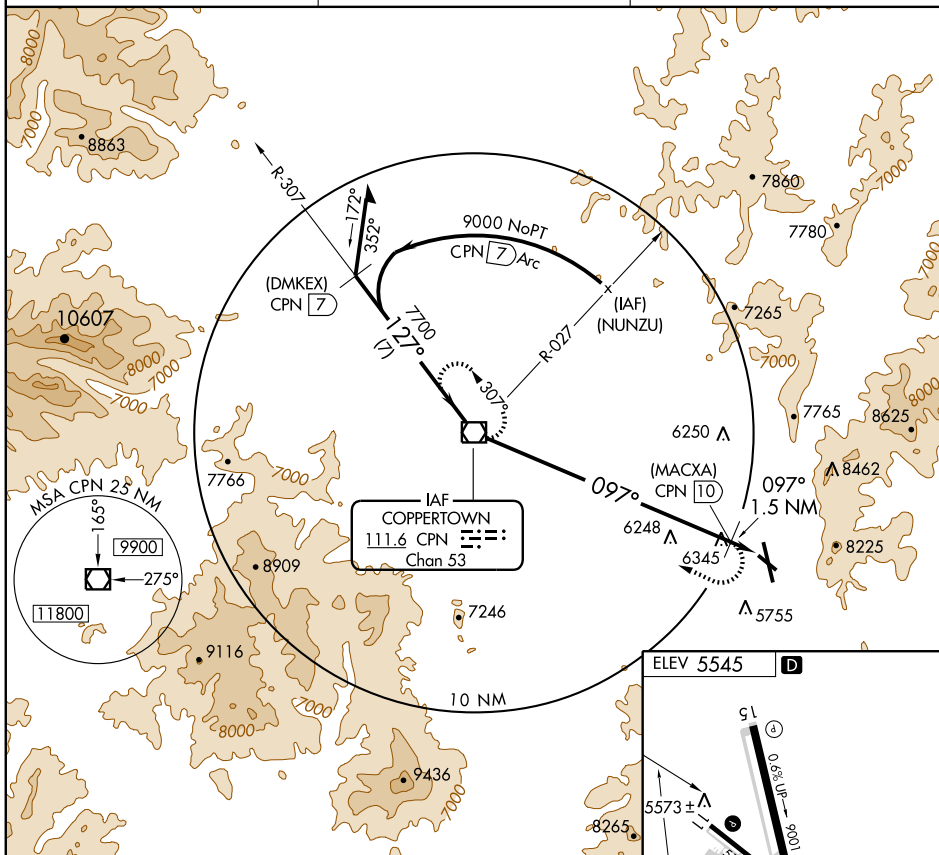
REIL Rws 11, 15, and 29	A	B	C	D
MIRL Rws 11-29 and 15-33	8540-1¼ 2995 (3000-1¼)	8540-1½ 2995 (3000-1½)	8540-3	2995 (3000-3)

AL-588 (FAA)

VOR or GPS-B
BUTTE/BERT MOONEY (BTM)

MISSED APPROACH: Climbing right turn to 9000 direct CPN VOR/DME and hold.

SALT LAKE CENTER
132.4 338.3

UNICOM
123.0 (CTAF) **L**

CATEGORY	A	B	C	D	FAF to MAP 10 NM					
CIRCLING	6900-1½ 1355 (1400-1½)	6900-3 1355 (1400-3)			Knots	60	90	120	150	180
					Min:Sec	10:00	6:40	5:00	4:00	3:20

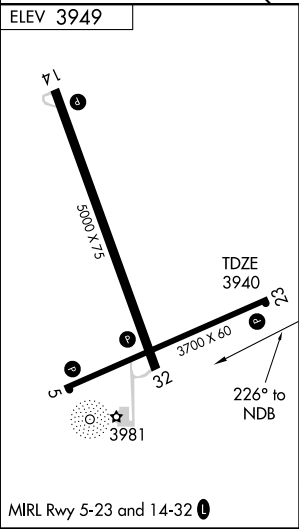
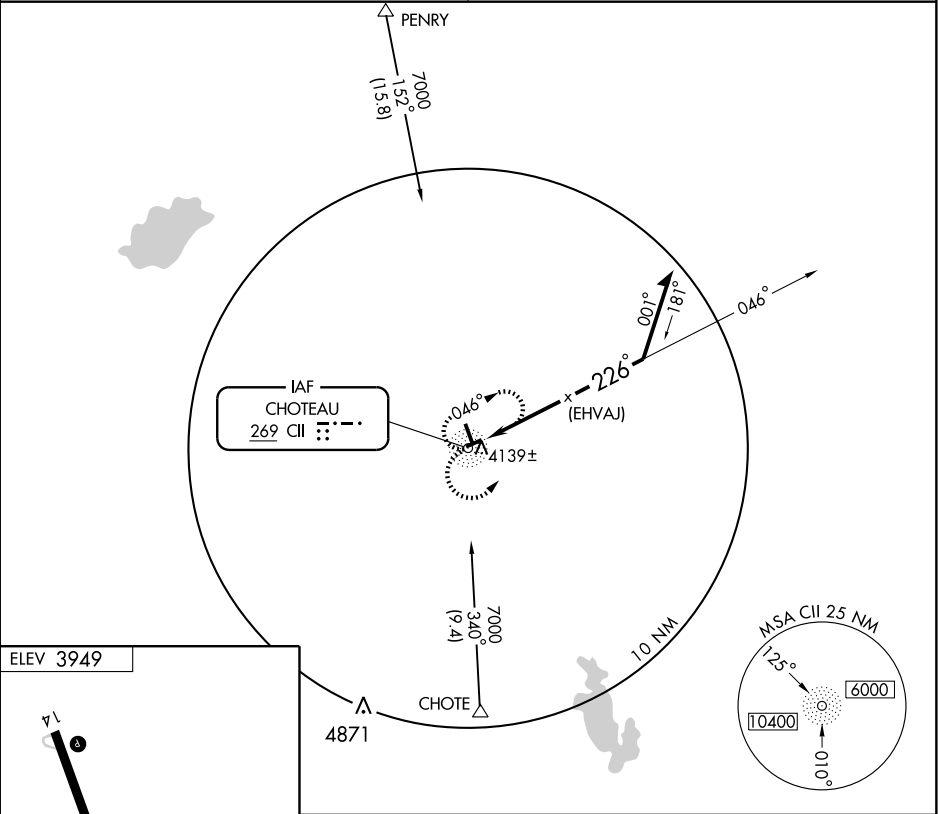
NW-1. 03 JUN 2010 to 01 JUL 2010

NDB CII	APP CRS	Rwy Idg	3700
269	226°	TDZE	3940
		Apt Elev	3949

NDB or GPS RWY 23

CHOTEAU (CII)

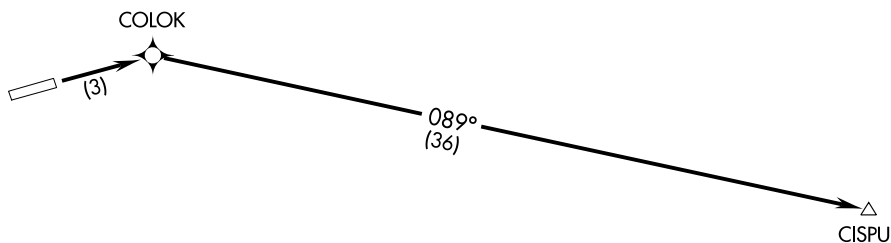
<p>NA</p> <p>Use Great Falls altimeter setting.</p>	<p>MISSED APPROACH: Climbing left turn to 6000 direct CII NDB and hold.</p>
<p>SALT LAKE CITY CENTER</p> <p>133.4 285.4</p>	<p>UNICOM</p> <p>122.8 (CTAF) 0</p>



6000

CATEGORY	A	B	C	D
S-23	4720-1 780 (800-1)	4720-1¼ 780 (800-1¼)	4720-2¼ 780 (800-2¼)	NA
CIRCLING	4720-1 775 (800-1)	4720-1¼ 775 (800-1¼)	4720-2¼ 775 (800-2¼)	NA

SALT LAKE CENTER
127.75 351.9



TAKE-OFF MINIMUMS

Rwy 6: Standard.
Rwy 24: NA - ATC.

TAKE-OFF OBSTACLE NOTES

Rwy 6: Tree 1492' from DER, 620' right of centerline, 20' AGL/3499' MSL.
Tree 507' from DER, 598' left of centerline, 20' AGL/3419' MSL.

NOTE: GPS required.

NOTE: RNAV 1

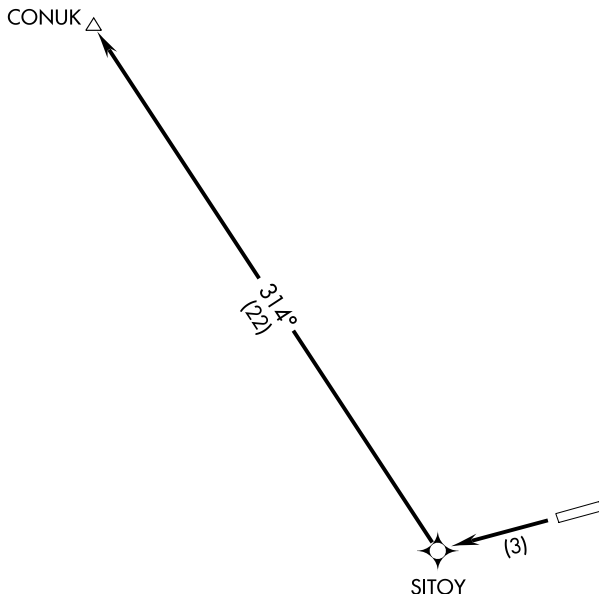
NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 6: Climb direct COLOK then via 089° track to CISPU, thence....
....Maintain 9000, expect filed altitude 10 minutes after departure.

CONUK ONE DEPARTURE (RNAV) (OBSTACLE)

SALT LAKE CENTER
127.75 351.9TAKE-OFF MINIMUMS

Rwy 6: NA - ATC.

Rwy 24: 600-3 or standard with minimum climb of 365' per NM to 4200.

TAKE-OFF OBSTACLE NOTE

Rwy 24: Dragline 11510' from DER, 3559' right of centerline, 225' AGL/3964' MSL.

NOTE: GPS required.

NOTE: RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 24: Climb direct SITOY then via 314° track to CONUK, thence....

....Maintain 6000, expect filed altitude 10 minutes after departure.

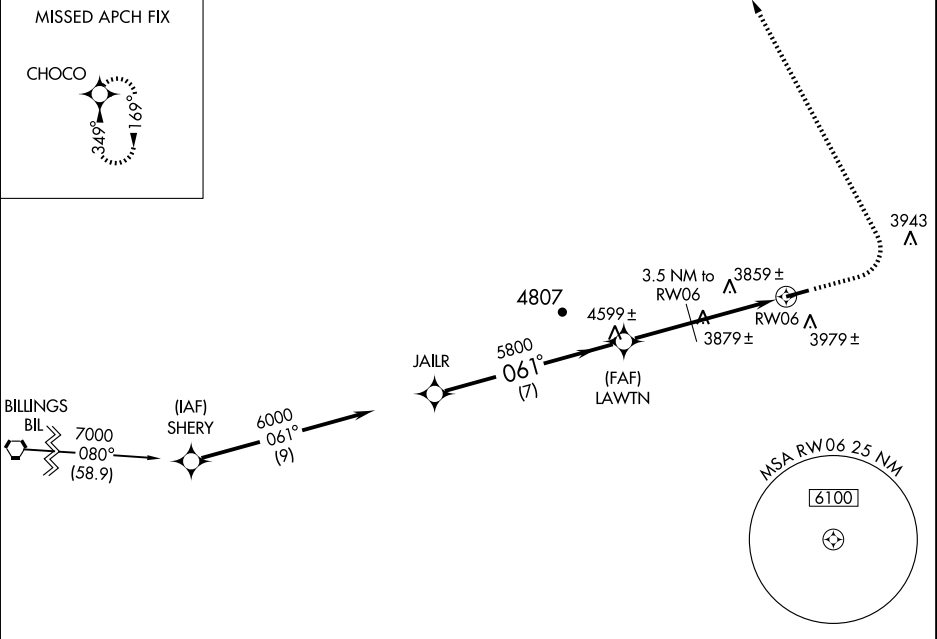
APP CRS	Rwy Idg	5100
061°	TDZE	3426
	Apt Elev	3426

NA When local altimeter not received use Miles City altimeter setting.

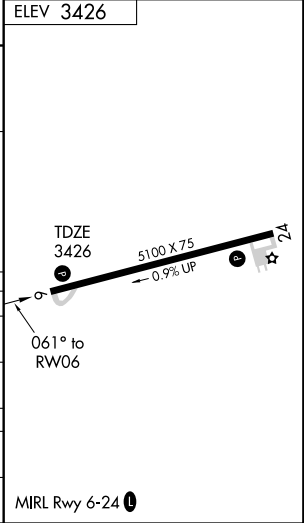
MISSED APPROACH: Climb to 4500 then climbing left turn to 6000 direct CHOCO WP and hold.

SALT LAKE CENTER
127.75 351.9

CTAF
122.9





JAILR					ELEV 3426				
*5045 when using Miles City altimeter setting.					4500 6000 CHOCO				
6000					JAILR				
061°					LAWNTN				
5800					3.5 NM to RW06				
*4800					RW06				
7 NM					2.5 NM				
3.5 NM					Procedure Turn NA				
CATEGORY	A	B	C	D					
S-6	4220-1 794 (800-1)	4220-1 ¼ 794 (800-1 ¼)	4220-2 ¼ 794 (800-2 ¼)	NA					
CIRCLING	4340-1 ¼ 914 (1000-1 ¼)	914 (1000-1 ¼)	4340-2 ¾ 914 (1000-2 ¾)	NA					
MILES CITY ALTIMETER SETTING									
S-6	NA								
CIRCLING	4580-1 ¼ 1154 (1200-1 ¼)	4580-1 ½ 1154 (1200-1 ½)	4580-3 1154 (1200-3)	NA					



GPS RWY 24
COLSTRIP (M46)

APP CRS	Rwy Idg	5100
242°	TDZE	3411
	Apt Elev	3426

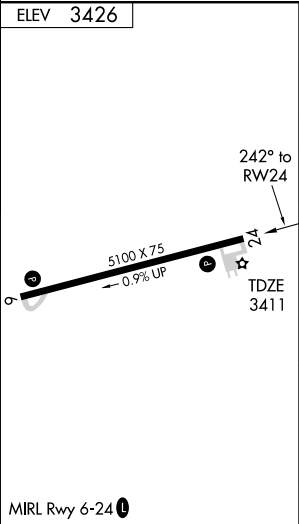
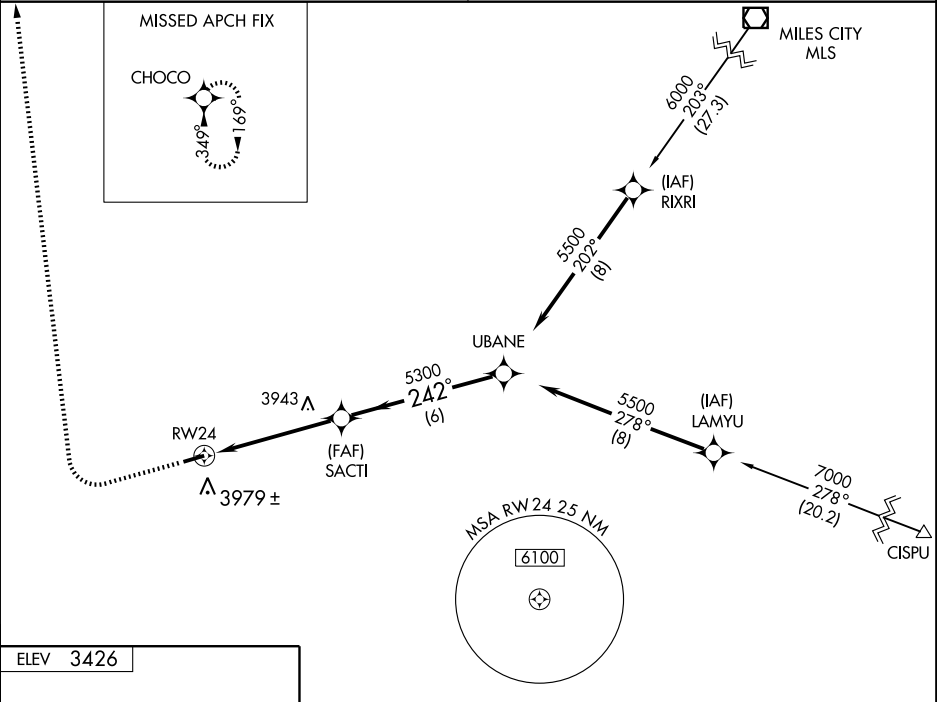

 NA

When local altimeter not received use Miles City
altimeter setting.

MISSED APPROACH: Climb to 4500 then climbing right turn to
6000 direct CHOCO WP and hold.

SALT LAKE CENTER
127.75 351.9

CTAF
122.9 0



	4500	6000	CHOCO	
	↑	↷	✧	
				UBANE
			SACTI	5500
			5300	242°
				Procedure Turn NA
CATEGORY	A	B	C	D
S-24	4200-1 789 (800-1)	4200-1¼ 789 (800-1¼)	4200-2¼ 789 (800-2¼)	NA
CIRCLING	4340-1¼ 914 (1000-1¼)		4340-2¾ 914 (1000-2¾)	NA
MILES CITY ALTIMETER SETTING				
S-24	4440-1¼ 1029 (1100-1¼)	4440-1½ 1029 (1100-1½)	4440-2¾ 1029 (1100-2¾)	NA
CIRCLING	4580-1¼ 1154 (1200-1¼)	4580-1½ 1154 (1200-1½)	4580-3 1154 (1200-3)	NA

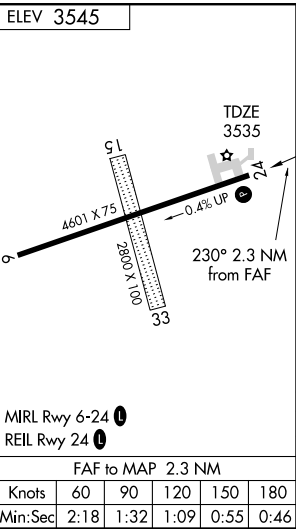
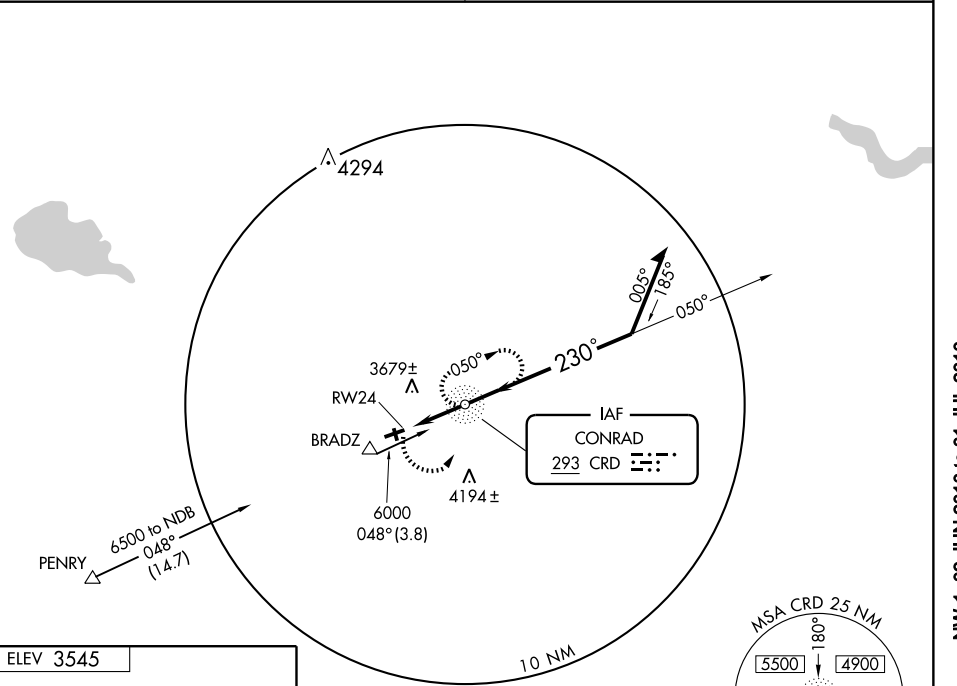
NA

Use Cut Bank altimeter setting; if not received, procedure not authorized.

MISSED APPROACH: Climbing left turn to 5200 direct CRD NDB and hold.

SALT LAKE CITY CENTER
133.4 285.4

UNICOM
122.8 (CTAF) **0**



	5200	CRD 293		
	VGSI and descent angles not coincident.			
	RW24	≤ 3.38° TCH 35	NDB	Remain within 10 NM
		2.3 NM	4400	5200
CATEGORY	A	B	C	D
S-24	4260-1	725 (800-1)	4260-2 725 (800-2)	4260-2¼ 725 (800-2¼)
CIRCLING	4260-1	715 (800-1)	4340-2¼ 795 (800-2¼)	NA

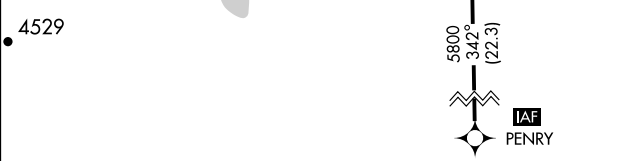
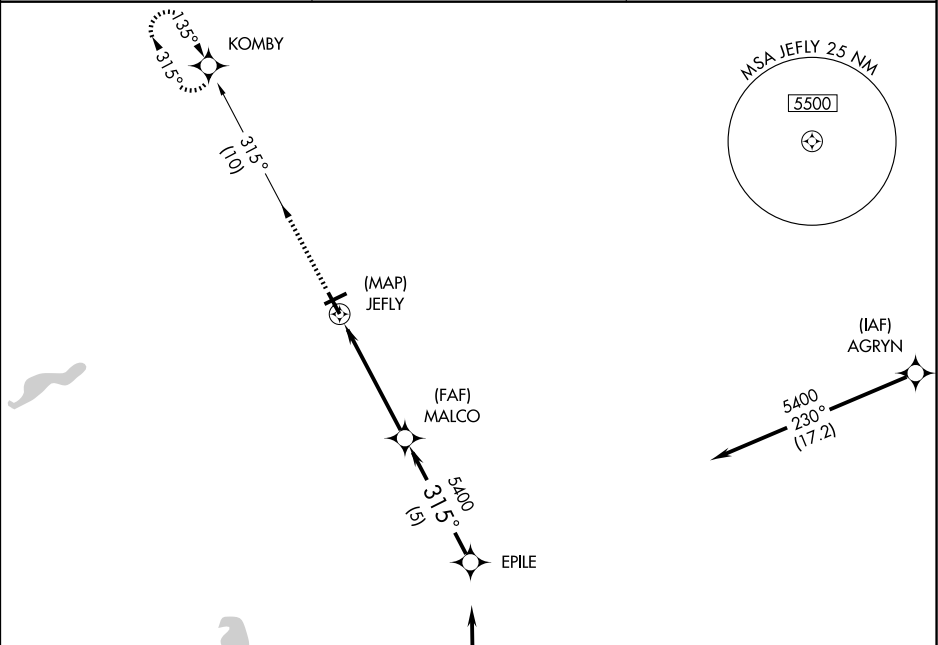
APP CRS	Rwy Idg	5300
315°	TDZE	3847
	Apt Elev	3854

GPS RWY 31

CUT BANK MUNI (CTB)

NA	IAF ARM APPROACH MODE PRIOR TO IAF.	MISSED APPROACH: Climb to 6000 via 315° course to KOMBY WP and hold.
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ASOS 119.025	SALT LAKE CITY CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0
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6000

↑

CRS 315°

KOMBY

✦

MALCO

EPILE

JEFLY

✕

5400

315°

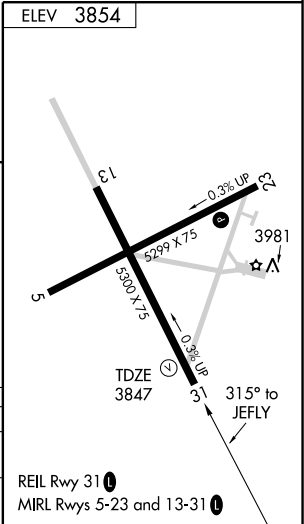
5400

Procedure Turn NA

5 NM

5 NM

CATEGORY	A	B	C	D
S-31	4220-1 373 (400-1)			4220-1¼ 373 (400-1¼)
CIRCLING	4220-1 366 (400-1)	4320-1 466 (500-1)	4320-1½ 466 (500-1½)	4420-2 566 (600-2)

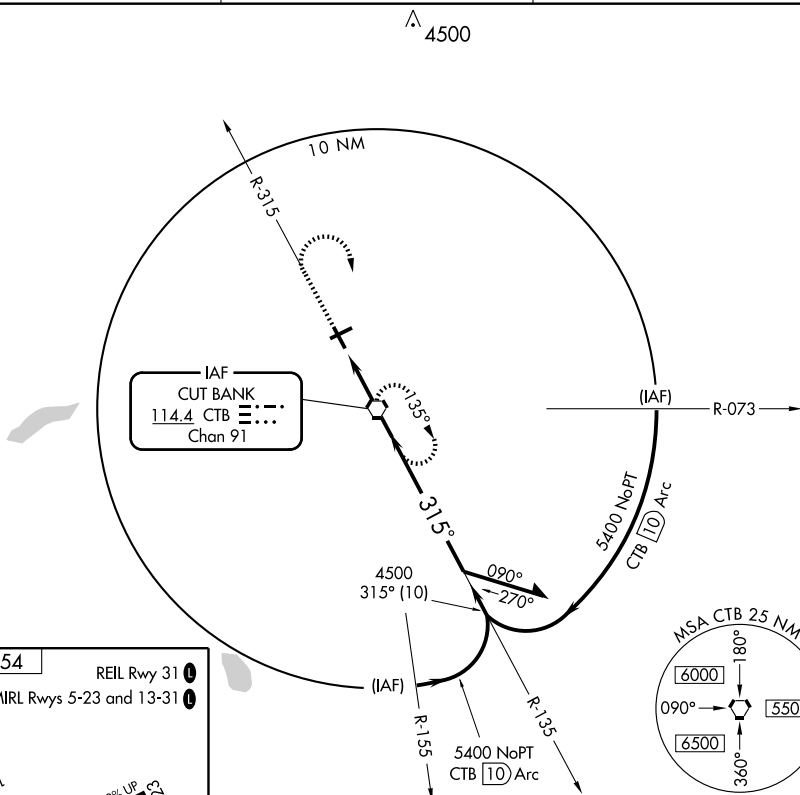


VORTAC CTB <u>114.4</u> Chan 91	APP CRS 315°	Rwy Idg 5300 TDZE 3847 Apt Elev 3854
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MISSED APPROACH: Climb to 5400 via CTB R-315 then right turn direct CTB VORTAC and hold.

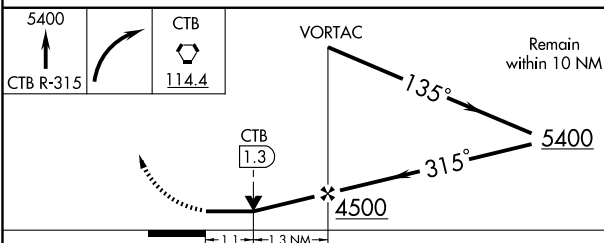
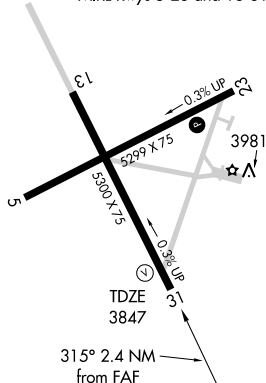
ASOS
119.025

SALT LAKE CITY CENTER
133.4 285.4

UNICOM
122.8 (CTAF) **L**

ELEV 3854

REIL Rwy 31 L

MIRL Rwy 5-23 and 13-31 **L**

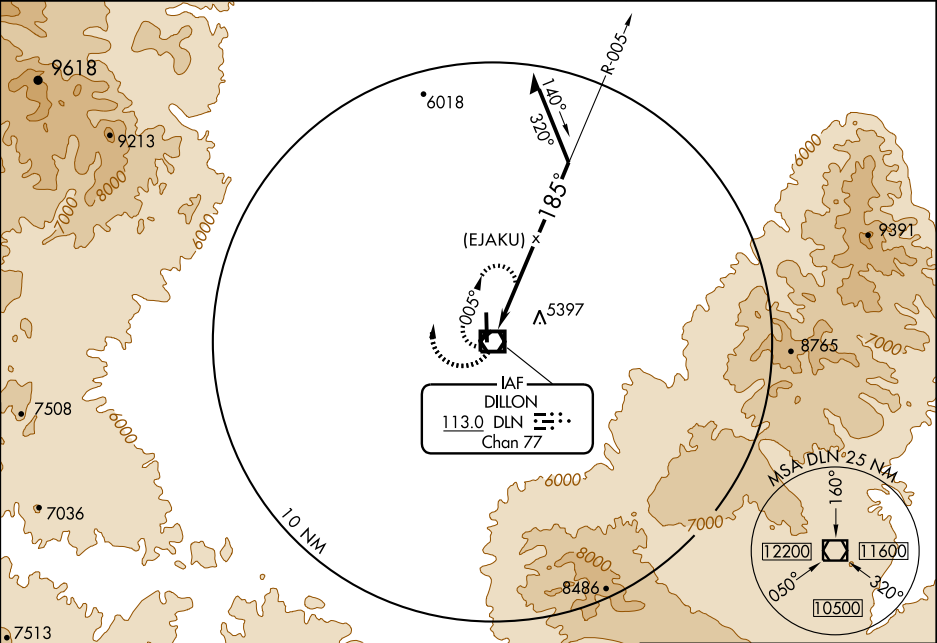
CATEGORY	A	B	C	D
S-31	4200-1 353 (400-1)			4200-1¼ 353 (400-1¼)
CIRCLING	4340-1 486 (500-1)		4340-1½ 486 (500-1½)	4420-2 566 (600-2)

VOR or GPS-A
DILLON (DLN)

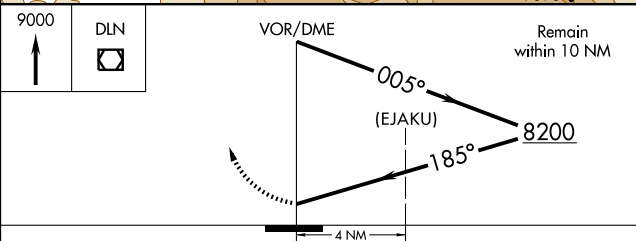
VOR/DME DLN 113.0 Chan 77	APP CRS 185°	Rwy Idg TDZE Apt Elev 5241	N/A N/A
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Procedure not authorized when Dillon altimeter setting not available.	MISSED APPROACH: Climb to 9000 in DLN VOR/DME holding pattern.
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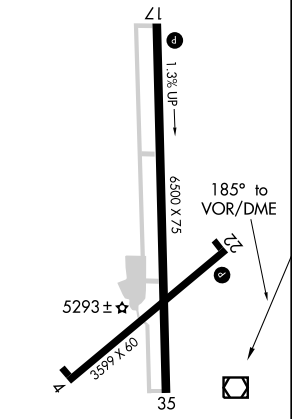
ASOS 135.225	SALT LAKE CENTER 132.4 338.3	UNICOM 122.8 (CTAF) 1
-----------------	---------------------------------	--------------------------



ELEV 5241



CATEGORY	A	B	C	D
CIRCLING	6700-1¼ 1462 (1500-1¼)	6700-1½ 1462 (1500-1½)	6700-3	1462 (1500-3)



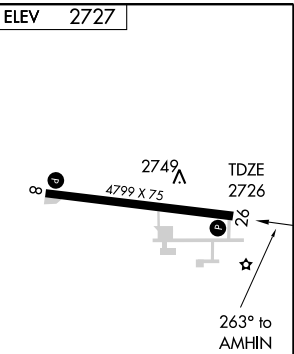
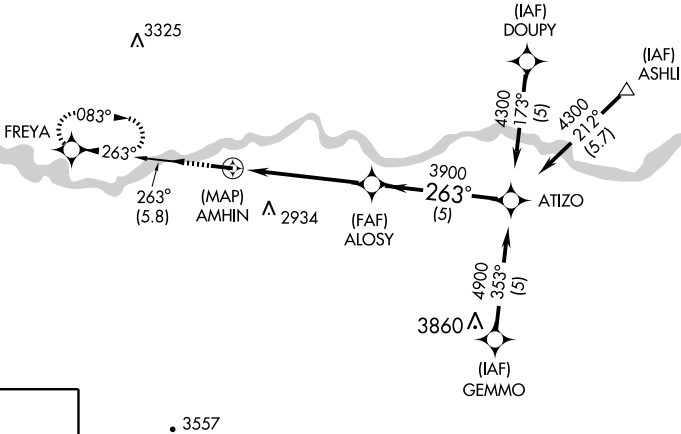
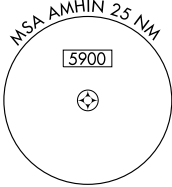
MIRL Rwy 17-35 and 4-22 1

Use Miles City altimeter setting, when not available, except for operators with approved weather reporting services, procedure not authorized.

MISSED APPROACH: Climb to 4900 via 263° course to FREYA WP and hold.

GREAT FALLS RADIO
122.2 255.4

UNICOM
122.8 (CTAF) 0



<div>4900 ↑ 263°</div>		<div>FREYA ✦</div>		<div>ALOSY ✦ 3900</div>		<div>ATIZO 4300</div>		Procedure Turn NA	
		<div>AMHIN</div>							
		5 NM		5 NM					
CATEGORY	A		B		C		D		
S-26	3200-1 474 (500-1)				3200-1¼ 474 (500-1¼)		3200-1½ 474 (500-1½)		
CIRCLING	3280-1 553 (600-1)		3400-1 673 (700-1)		3420-2 693 (700-2)		3440-2¼ 713 (800-2¼)		

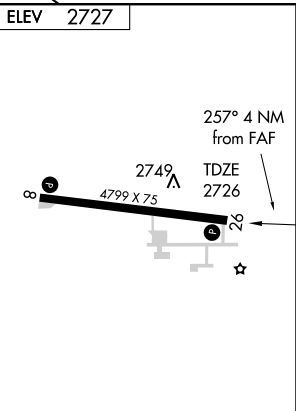
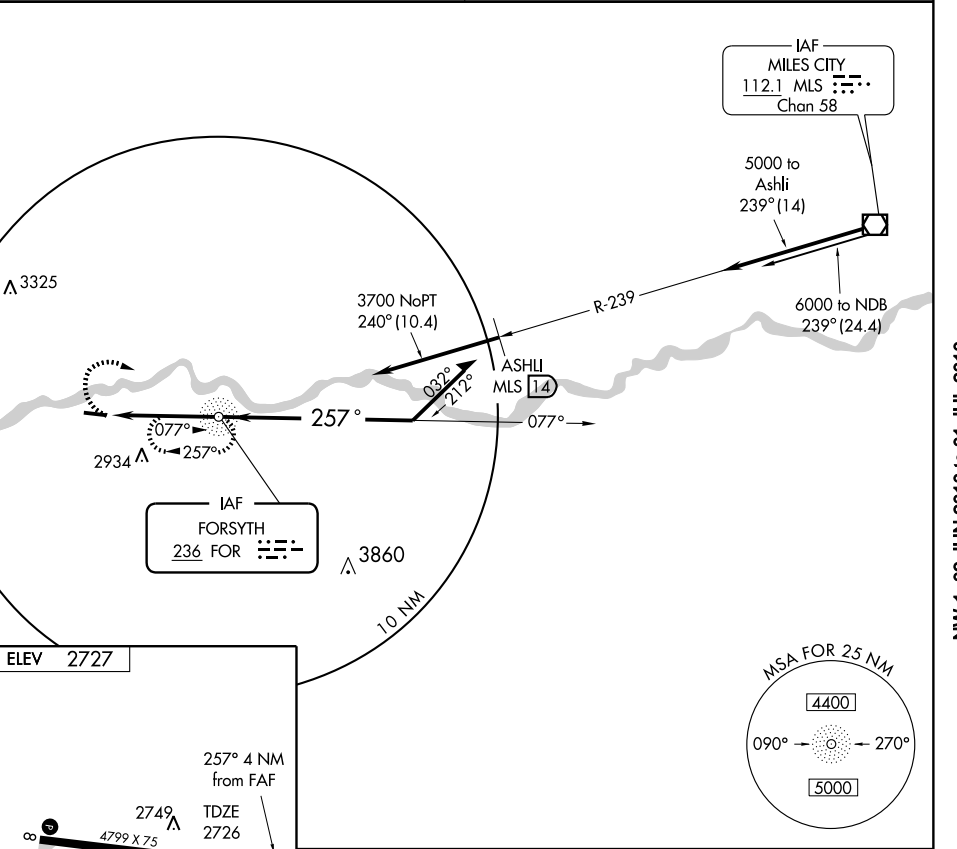
NA

Use Miles City altimeter setting, when not available, except for operators with approved weather reporting services, procedure not authorized.

MISSED APPROACH: Climbing right turn to 4700 direct FOR NDB and hold.

GREAT FALLS RADIO
122.2 255.4

UNICOM
122.8 (CTAF)



MIRL Rwy 8-26

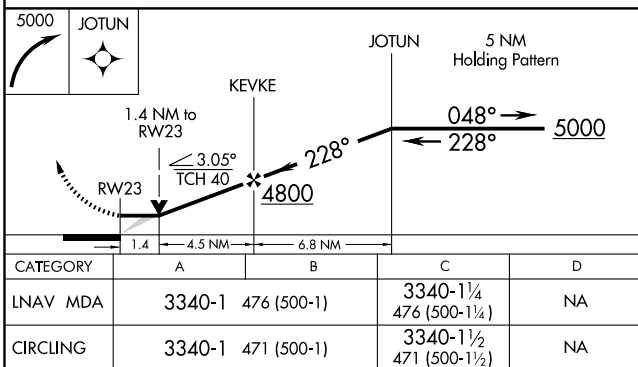
FAF to MAP 4 NM					
Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20

CATEGORY	A	B	C	D
S-26	3340-1	614 (700-1)	3340-1 3/4	3340-2
			614 (700-1 3/4)	614 (700-2)
CIRCLING	3340-1	3420-1	3420-2	3440-2 1/4
	614 (700-1)	694 (700-1)	694 (700-2)	714 (800-2 1/4)

RNAV (GPS) RWY 23
FORT BENTON (79S)

MISSED APPROACH: Climbing right turn to 5000 direct JOTUN and hold.

UNICOM
122.8 (CTAF) **L**



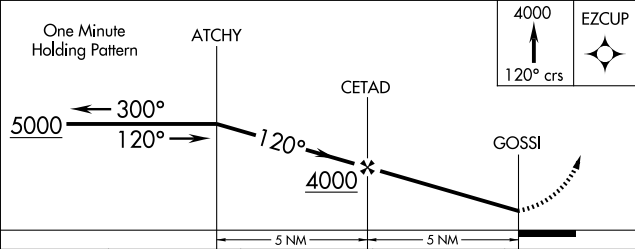
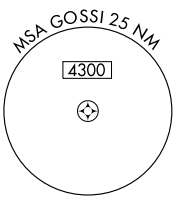
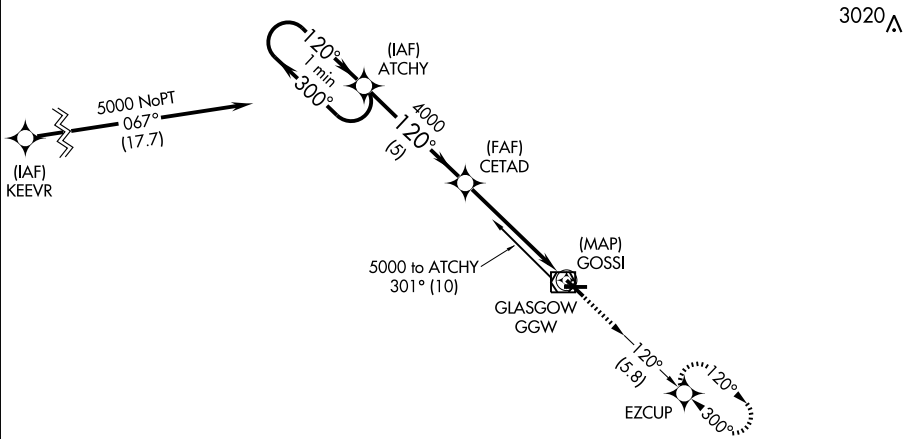
GPS RWY 12

APP CRS	Rwy Idg	5001
120°	TDZE	2291
	Apt Elev	2294

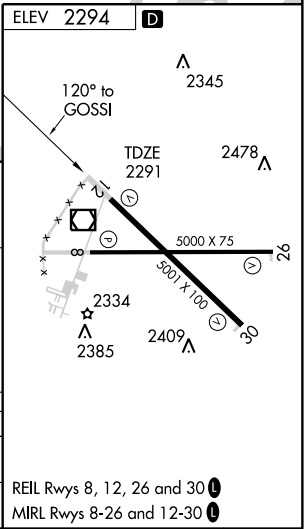
GLASGOW/WOKAL FIELD/GLASGOW INTL (GGW)

▲ NA	MISSED APPROACH: Climb to 4000 via 120° course to EZCUP WP and hold.
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ASOS 135.175	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-12	2720-1	429 (500-1)	2720-1¼ 429 (500-1¼)	2720-1½ 429 (500-1½)
CIRCLING	2780-1	486 (500-1)	2780-1½ 486 (500-1½)	2860-2 566 (600-2)



REIL Rwy 8, 12, 26 and 30
MIRL Rwy 8-26 and 12-30

NDB RWY 30

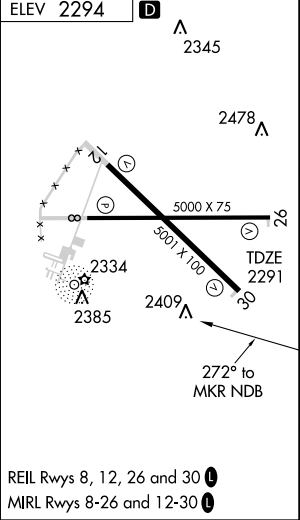
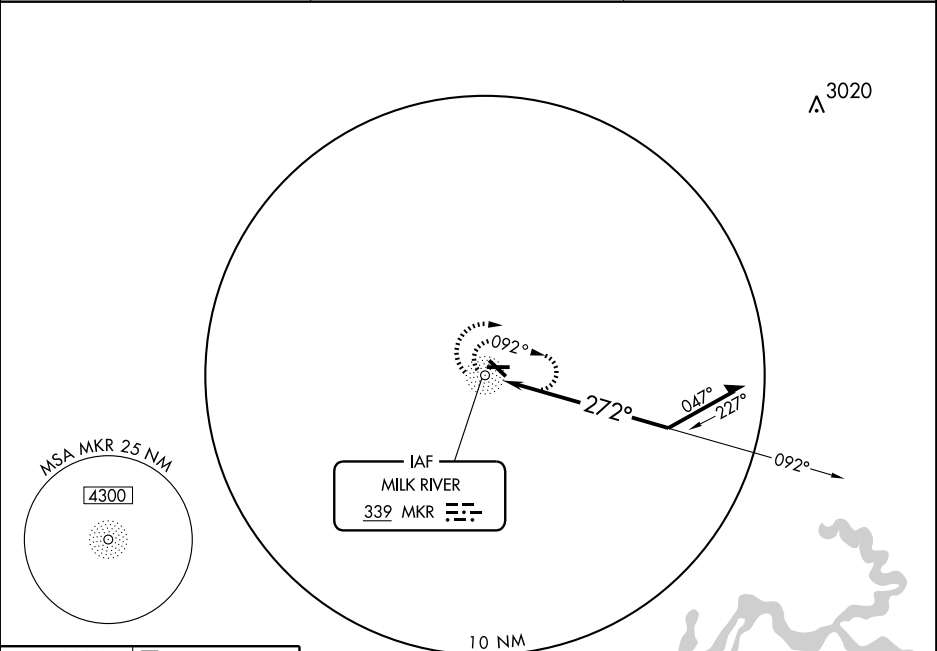
GLASGOW/WOKAL FIELD/GLASGOW INTL (GGW)

NDB MKR	APP CRS	Rwy Idg	5001
339	272°	TDZE	2291
		Apt Elev	2294

ACTIVATE MIRL Rwy 8-26 and 12-30-CTAF.

MISSED APPROACH: Climb to 3900 in MKR NDB holding pattern.

ASOS 135.175	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 0
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	3900	MKR 339		
			NDB	Remain within 10 NM
			092°	3900
			272°	
CATEGORY	A	B	C	D
S-30	2840-1	549 (600-1)	2840-1½ 549 (600-1½)	2840-1¾ 549 (600-1¾)
CIRCLING	2840-1	547 (600-1)	2840-1½ 547 (600-1½)	2860-2 567 (600-2)

VOR/DME	GGW	APP CRS	Rwy Idg	5001
113.9		293°	TDZE	2291
Chan 86			Apt Elev	2294

VOR or GPS RWY 30

GLASGOW/WOKAL FIELD/GLASGOW INTL (GGW)

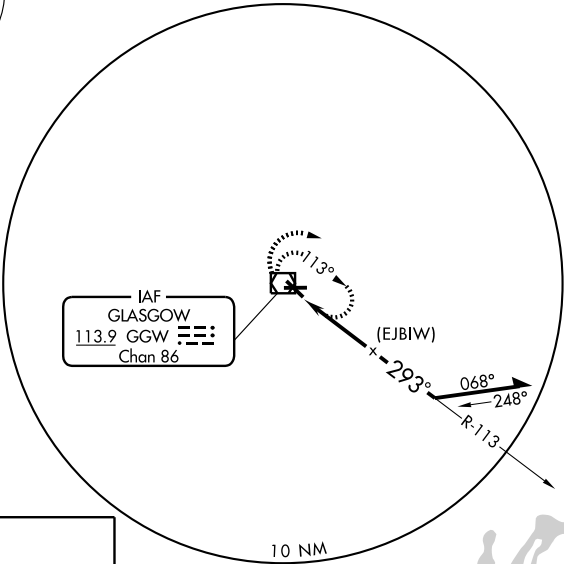
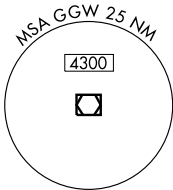
ACTIVATE MIRL Rwy 8-26 and 12-30-CTAF.

MISSED APPROACH: Climb to 3900 in GGW VOR/DME holding pattern.

ASOS
135.175

SALT LAKE CENTER
126.85 305.2

UNICOM
122.8 (CTAF) 0

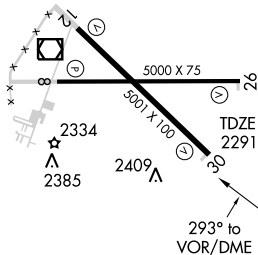


ELEV 2294



2345 MSL

2478 MSL



3900

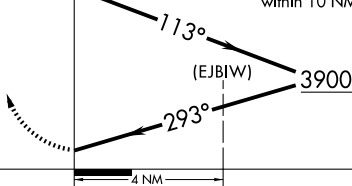
GGW



113.9

VOR/DME

Remain within 10 NM



REIL Rwy 8, 12, 26 and 30 0

MIRL Rwy 8-26 and 12-30 0

CATEGORY	A	B	C	D
S-30	2780-1	489 (500-1)	2780-1¼ 489 (500-1¼)	2780-1½ 489 (500-1½)
CIRCLING	2780-1	487 (500-1)	2780-1½ 487 (500-1½)	2860-2 567 (600-2)

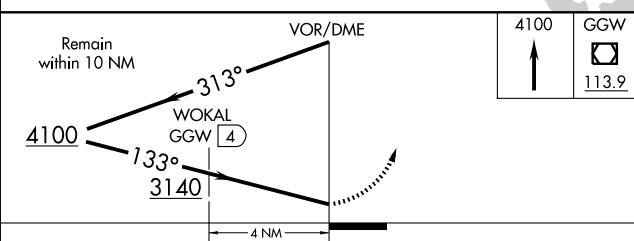
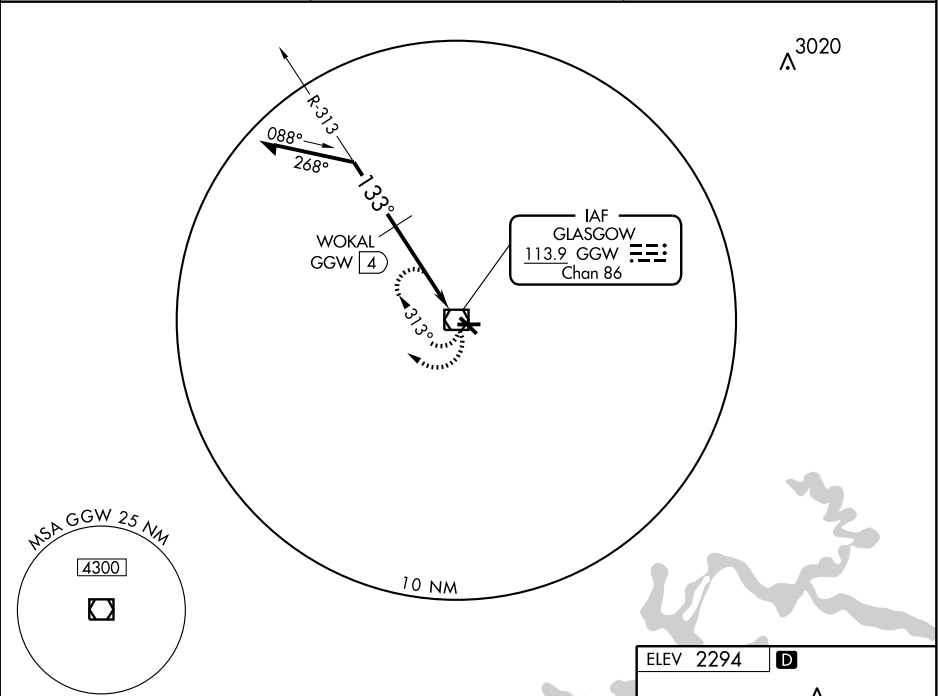
VOR RWY 12

VOR/DME	GGW	APP CRS	Rwy Idg	5001
113.9		133°	TDZE	2291
Chan 86			Apt Elev	2294

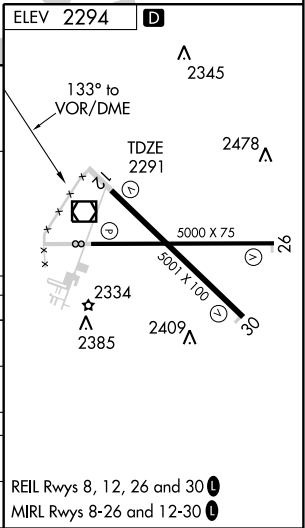
GLASGOW/WOKAL FIELD/GLASGOW INTL (GGW)

A ACTIVATE MIRL Rwy 8-26 and 12-30-CTAF.	MISSED APPROACH: Climb to 4100 in GGW VOR/DME holding pattern.
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ASOS 135.175	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-12	3140-1 849 (900-1)	3140-1¼ 849 (900-1¼)	3140-2½ 849 (900-2½)	3140-2¾ 849 (900-2¾)
CIRCLING	3140-1 847 (900-1)	3140-1¼ 847 (900-1¼)	3140-2½ 847 (900-2½)	3140-2¾ 847 (900-2¾)
VOR/DME MINIMUMS				
S-12	2700-1 409 (500-1)		2700-1¼ 409 (500-1¼)	
CIRCLING	2780-1 487 (500-1)		2780-1½ 487 (500-1½)	2860-2 567 (600-2)



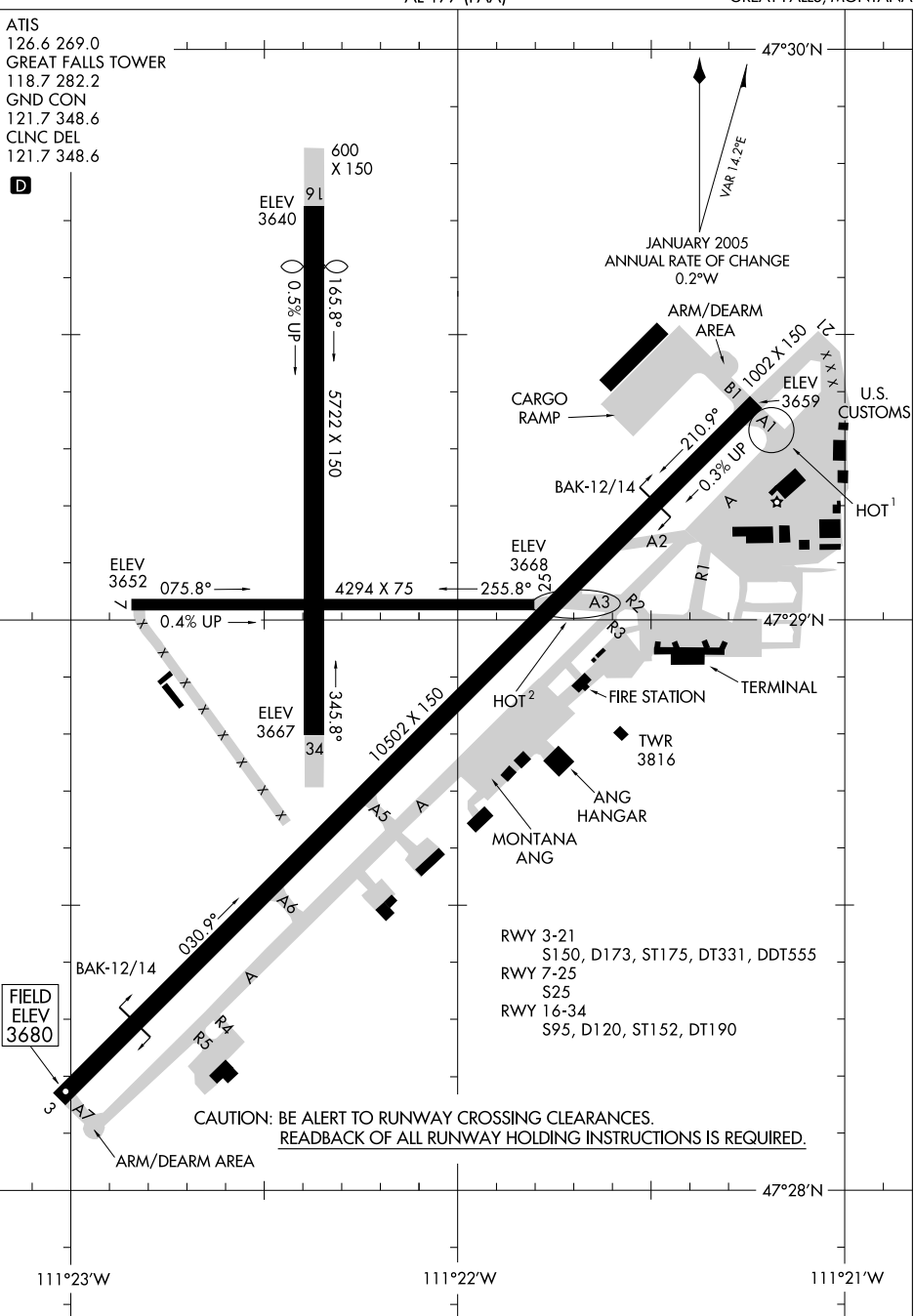
AIRPORT DIAGRAM

AL-177 (FAA)

GREAT FALLS INTL (GTF)
GREAT FALLS, MONTANA

ATIS
126.6 269.0
GREAT FALLS TOWER
118.7 282.2
GND CON
121.7 348.6
CLNC DEL
121.7 348.6

D



NW-1. 03 JUN 2010 to 01 JUL 2010

GPS RWY 21

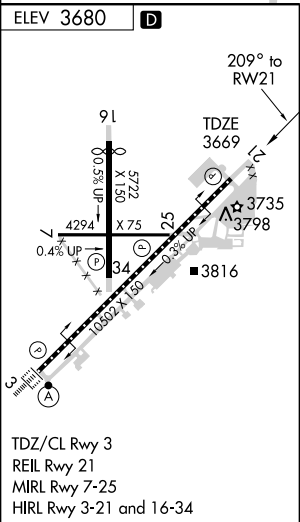
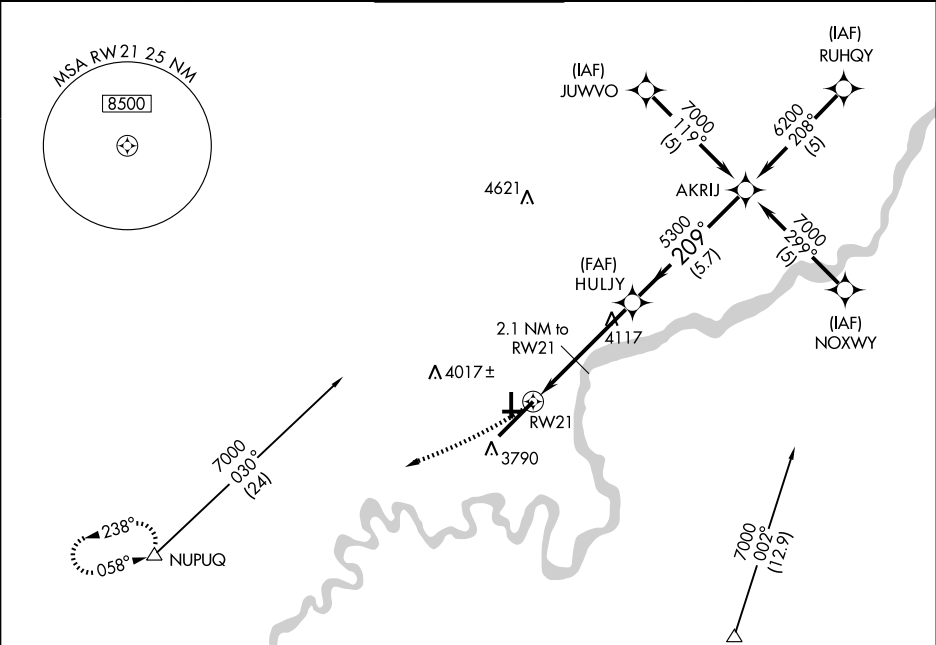
GREAT FALLS INTL (GTF')

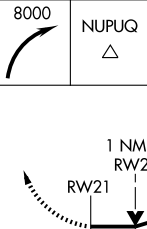
APP CRS	Rwy Idg	10502
209°	TDZE	3669
	Apt Elev	3680


NA

MISSED APPROACH: Climbing right turn to 8000 direct NUPUQ WP and hold.

ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
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8000 NUPUQ △		VGSi and descent angles not coincident.			
		HULJY RW21 2.1 NM to RW21 1 NM to RW21 4380 5300 6200 209° TCH 59° Procedure Turn NA			
1 NM		1.1 NM	2.9 NM	5.7 NM	
CATEGORY	A	B	C	D	
S-21	4040-1 371 (400-1)				4040-1 ½ 371 (400-1 ½)
CIRCLING	4120-1 440 (500-1)	4140-1 460 (500-1)	4140-1 ½ 460 (500-1 ½)		4240-2 560 (600-2)

NW-1. 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	5070
344°	TDZE	3669
	Apt Elev	3677

GPS RWY 34
GREAT FALLS INTL (GTF)



A NA

MISSED APPROACH: Climb to 4300, then climbing left turn to 8000 direct NUPUQ WP and hold.

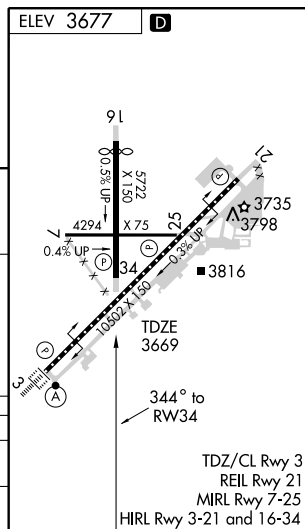
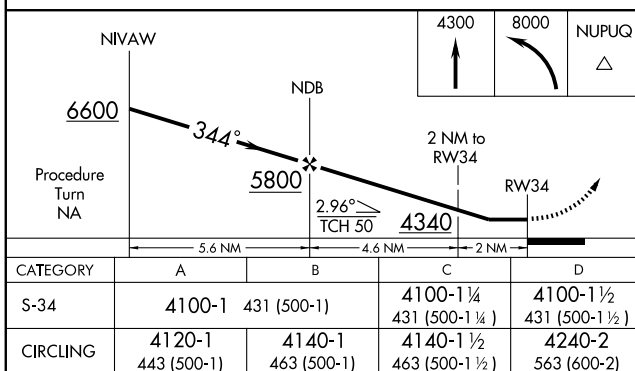
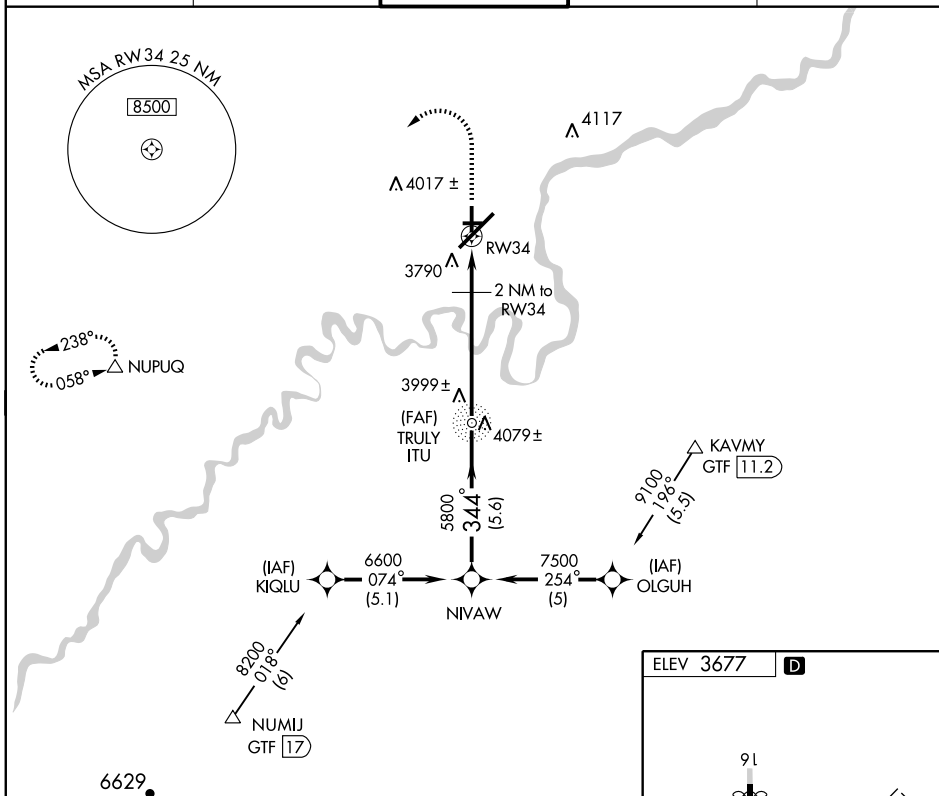
ATIS
126.6 269.0

GREAT FALLS APP CON
128.6 259.1

118.7 282.2

GND CON
121.7 348.6

CLNC DEL
121.7 348.6



LOC I-SMR
111.3
Chan **50**

APCH CRS
029°

Rwy ldg **10,502**
TDZE
Arpt Elev **3680**

JAL 177 [USAF]

GREAT FALLS INTL (KGTF)

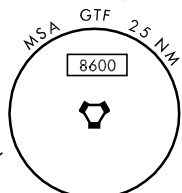
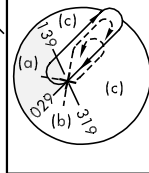
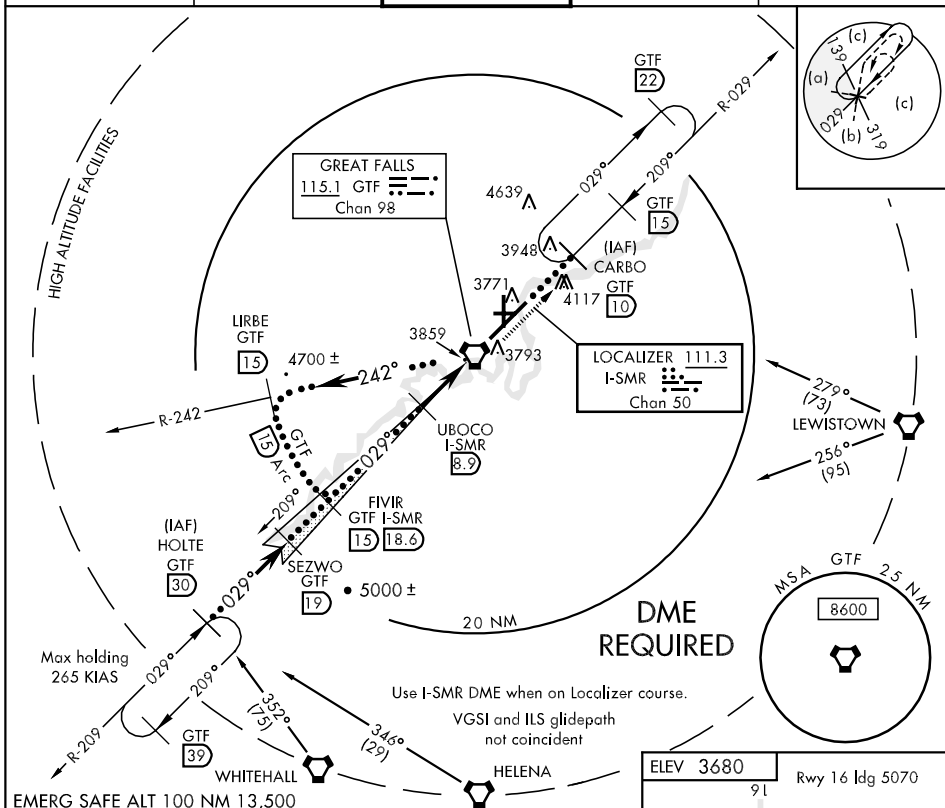
** When ALS inop, increase CAT C RVR to 50 and vis to 1 mile.

ALSF-2

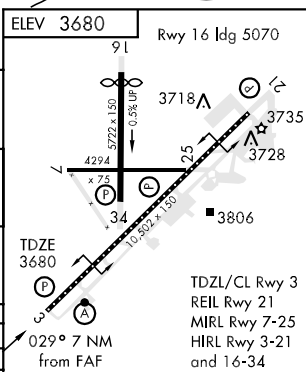
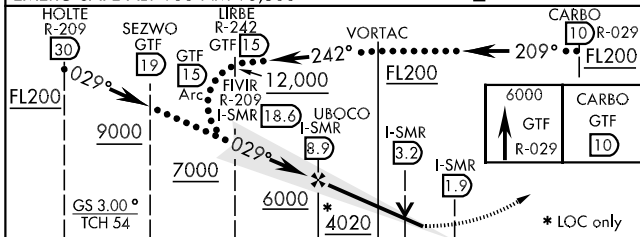


MISSED APPROACH: Climb to 6000 via GTF R-029 to CARBO 10 DME and hold.

ATIS	GREAT FALLS APP CON	GREAT FALLS TOWER	GND CON	CLNC DEL
126.6 269.0	128.6 259.1	118.7 282.2	121.7 348.6	121.7 348.6



EMERG SAFE ALT 100 NM 13,500



CATEGORY	C	D	E
S-ILS 3	3880/24	200	(200-1/2)
S-LOC 3 **	4160/40 (500-3/4)	4160/50 (500-1)	4160/60 (500-1 1/4)
CIRCLING	4160-1 1/2 (500-1 1/2)	4240-2 (600-2)	4420-2 1/2 (800-2 1/2)

GREAT FALLS, MONTANA

47°29'N-111°22'W

GREAT FALLS INTL (KGTF)

Amdt 3 10126

HI-ILS or LOC/DME RWY 3

VORTAC GTF
115.1
 Chan **98**

APCH CRS
029°

Rwy ldg **10,502**
 TDZE **3674**
 Arpt Elev **3680**

JAL 177 [USAF]

GREAT FALLS INTL (KGTF)

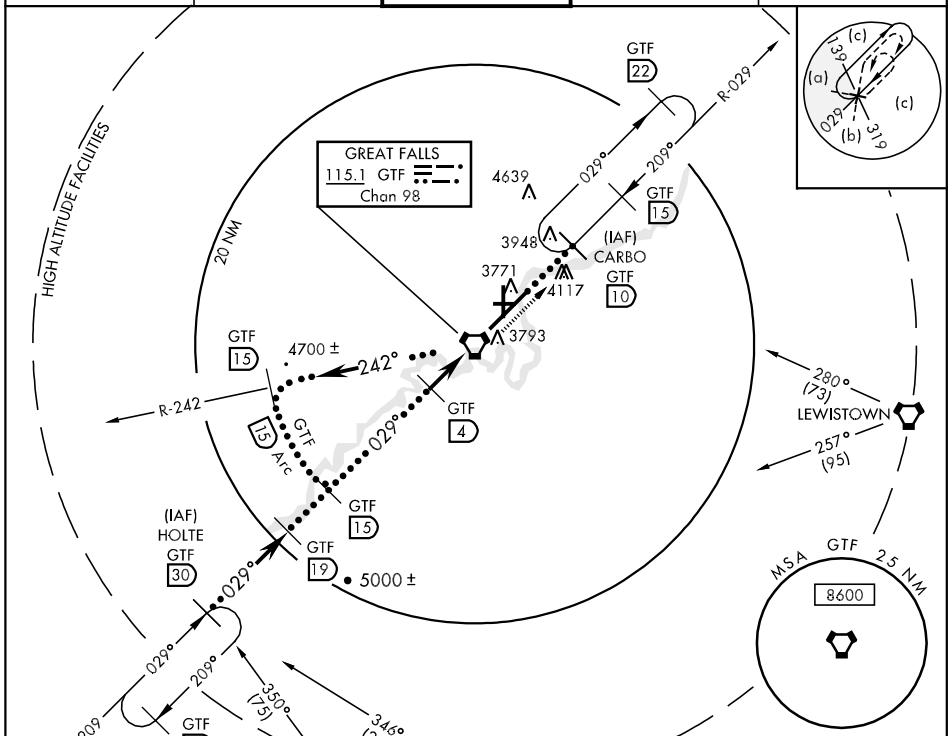
* When ALS inop, increase CAT DE RVR to 60 and vis to 1¼ miles.

ALSF-2

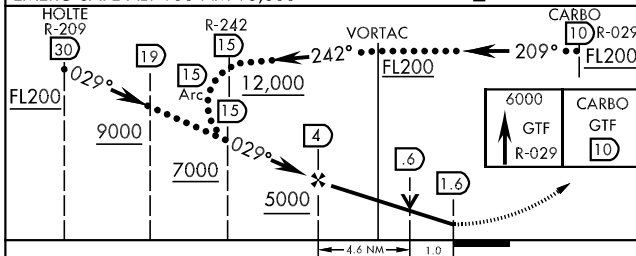


MISSED APPROACH: Climb to 6000 via GTF R-029 to CARBO 10 DME and hold.

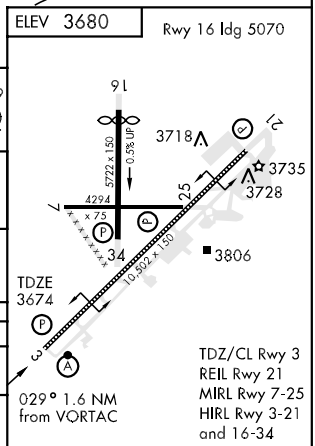
ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
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EMERG SAFE ALT 100 NM 13,300



CATEGORY	C	D	E
S-3 *	4060/24 386 (400-½)	4060/50 386 (400-1)	
CIRCLING	4140-1½ 466 (500-1½)	4240-2 566 (600-2)	4420-2¾ 746 (800-2¾)



VORTAC GTF
115.1
 Chan **98**

APCH CRS
209°

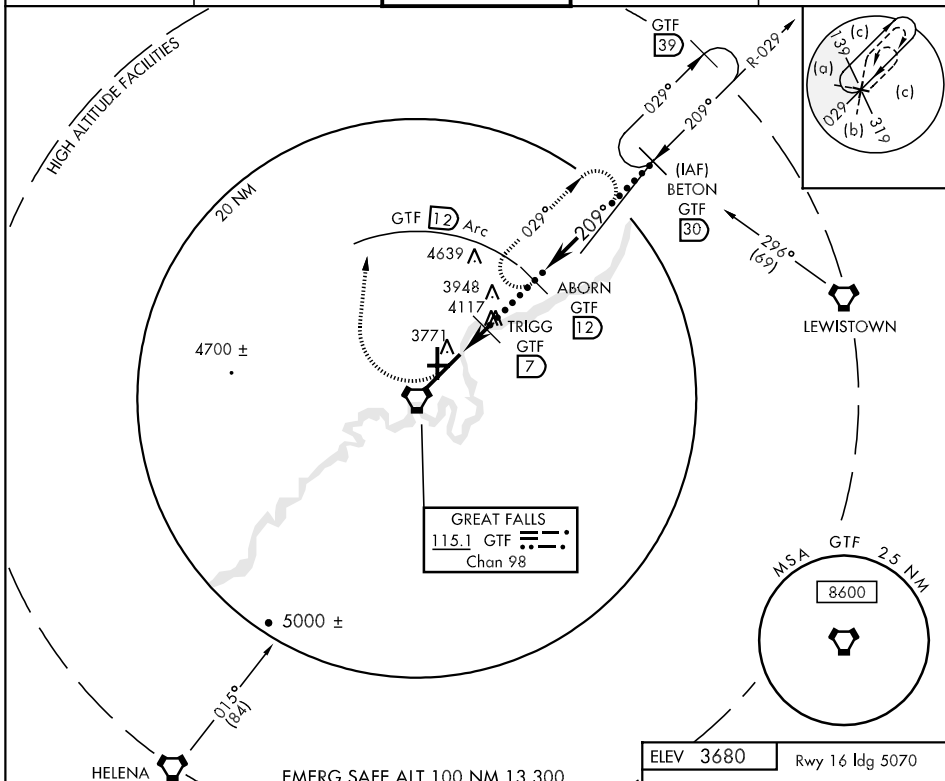
Rwy ldg **10,502**
 TDZE **3665**
 Arpt Elev **3680**

JAL-177 [USAF]

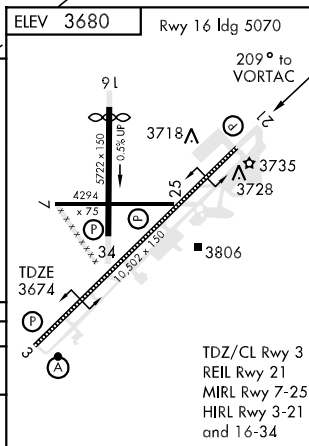
GREAT FALLS INTL (KGTF)

MISSED APPROACH: Climbing right turn to 6000 heading 350°,
 intercept GTF 12 DME Arc to ABORN 12 DME and hold.

ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
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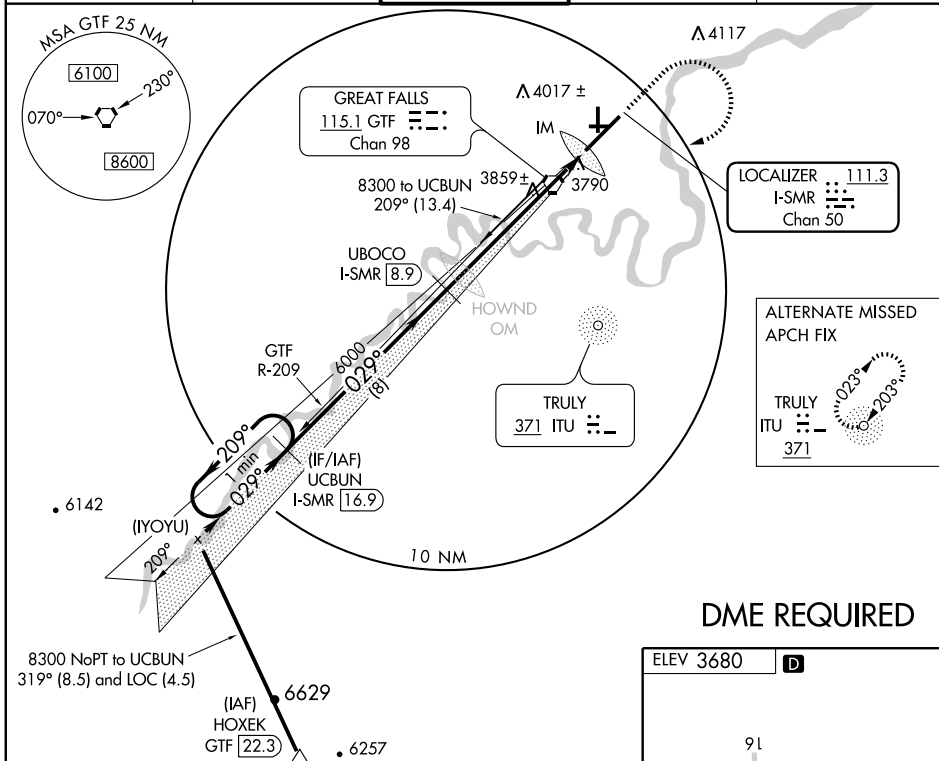
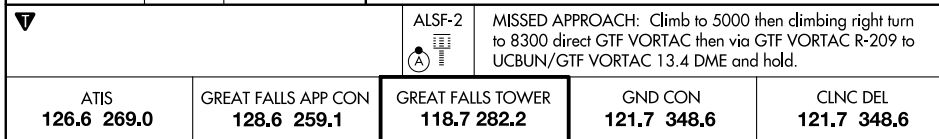


6000 Hdg 350°	GTF 12 Arc	ABORN GTF R-029 12	BETON R-029 FL200
VORTAC	3.4	4.3	5400
	3.6 NM	4800	5400
CATEGORY	C	D	E
S-21	4000-1	335 (400-1)	4000-1¼ 335 (400-1 ¼)
CIRCLING	4140-1½ 466 (500-1½)	4240-2 566 (600-2)	4420-2¾ 746 (800-2¾)



LOC/DME I-SMR 111.3 Chan 50	APP CRS 029°	Rwy Idg 10502 TDZE 3680 Apt Elev 3680
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ILS or LOC/DME RWY 3
GREAT FALLS INTL (GTF)



Use I-SMR DME when on the localizer course.

One Minute Holding Pattern

UCBUN
I-SMP 169

5000

830

GTF

 1151

GTF
R-209

UCBUN
GTF
13.4

10.7	10.7
------	------

8300 $\xleftarrow{209^\circ}$ $\xrightarrow{029^\circ}$ $\xrightarrow{029^\circ}$

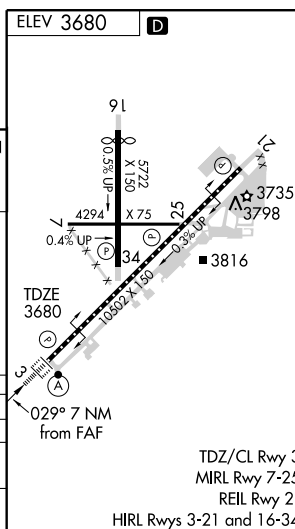
GS 3.00°	6000
TCH 54	

UBOCO
GMR (8.9)

115.1	
VGSI and ILS g	
not coincident.	

SMR	I-SMR
3.2	1.9

		8 NM	5.7 NM	1.2	0.1
CATEGORY	A	B	C	D	
S-ILS 3	3880/18		200 (200-½)		
S- LOC 3	4160/24	480 (500-½)	4160/40 480 (500-¾)	4160/50 480 (500-1)	
CIRCLING	4160-1	480 (500-1)	4160-1½ 480 (500-1½)	4240-2 560 (600-2)	



LOC/DME I-SMR <u>111.3</u> Chan 50	APP CRS 029°	Rwy Idg 10502 TDZE 3680 Apt Elev 3680
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ILS RWY 3 (CAT III)
GREAT FALLS INTL (GTF)



ALSF-2

MISSED APPROACH: Climb to 5000 then climbing right turn to 8300 direct GTF VORTAC then via GTF VORTAC R-209 to UCBUN/GTF VORTAC 13.4 DME and hold.

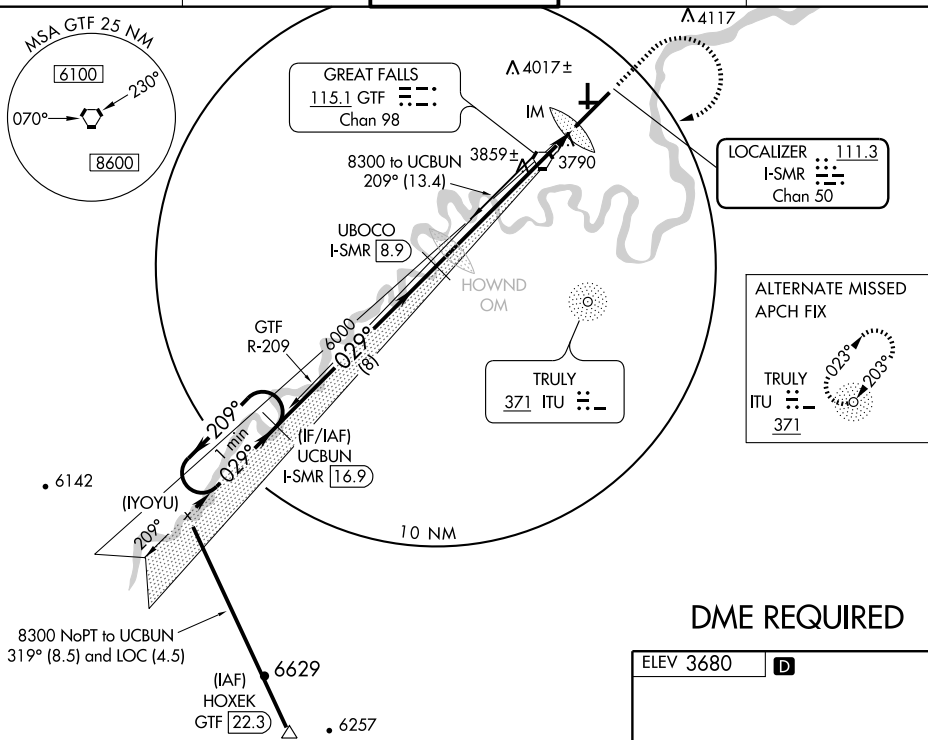
ATIS
126.6 269.0

GREAT FALLS APP CON
128.6 259.1

GREAT FALLS TOWER
118.7 282.2

GND CON
121.7 348.6

CLNC DEL
121.7 348.6



DME REQUIRED

ELEV 3680

D

Use I-SMR DME when on the localizer course.

One Minute Holding Pattern

UCBUN
I-SMR 16.9

5000

8300

GTF

ICBI IN

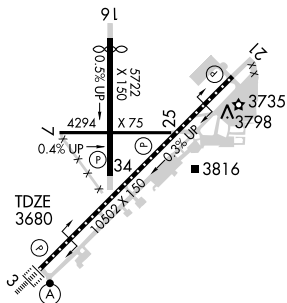
3.4

8300 ← 209°
029° → 029°

GS 3.00°
TCH 54

CATEGORY	A	B	C	D
S-ILS 3		CAT IIIa	RVR 07	
S-ILS 3		CAT IIIb	RVR 06	
S-ILS 3		CAT IIIc	NA	

CATEGORY III ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED



TDZ/CL Rwy 3
MIRL Rwy 7-25
REIL Rwy 21
HIRL Rwy 3-21 and 16-34

WAAS
CH **70602**
W03A

APP CRS
029°

Rwy Idg **10502**
TDZE **3680**
Apt Elev **3680**

For uncompensated Baro-VNAV systems, LNAV/VNAV
NA below -22°C (-7°F) or above 42°C (107°F).

ALSF-2

MISSED APPROACH: Climb to 6200 direct HULJY
and via 029° track to RUHQY and hold.

ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
----------------------------	---	---	-------------------------------	--------------------------------

Procedure NA for arrivals at GTF VORTAC via V536 northbound and V120 eastbound.

VGSI and RNAV glidepath not coincident				
7 NM Holding Pattern				
8000 ← 209° / 029° → 6000				
GS 3.00° TCH 54				
8 NM 5.7 NM 1.3 NM				
CATEGORY	A	B	C	D
LPV DA	3930/24 250 (300-½)			
LNAV/VNAV DA	4067/40 387 (400-¾)			
LNAV MDA	4160/24 480 (500-½)		4160/40 480 (500-¾)	4160/50 480 (500-1)
CIRCLING	4160-1 480 (500-1)		4160-1½ 480 (500-1½)	4240-2 560 (600-2)

ELEV 3680 **D**

NW-1, 03 JUN 2010 to 01 JUL 2010

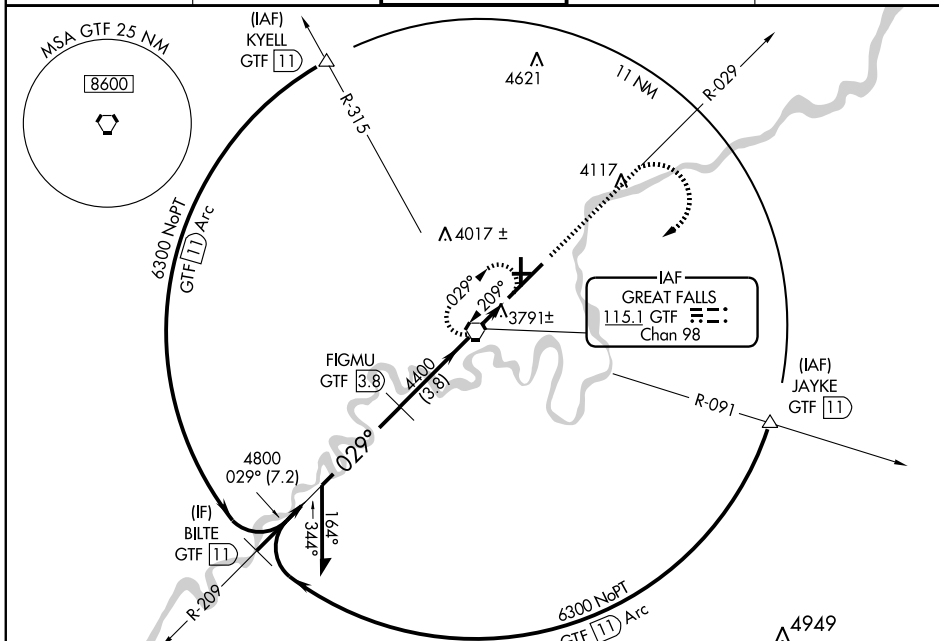
VORTAC GTF 115.1 Chan 98	APP CRS 029°	Rwy Idg 10502 TDZE 3680 Apt Elev 3680
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VOR/DME RWY 3

GREAT FALLS INTL (GTF)

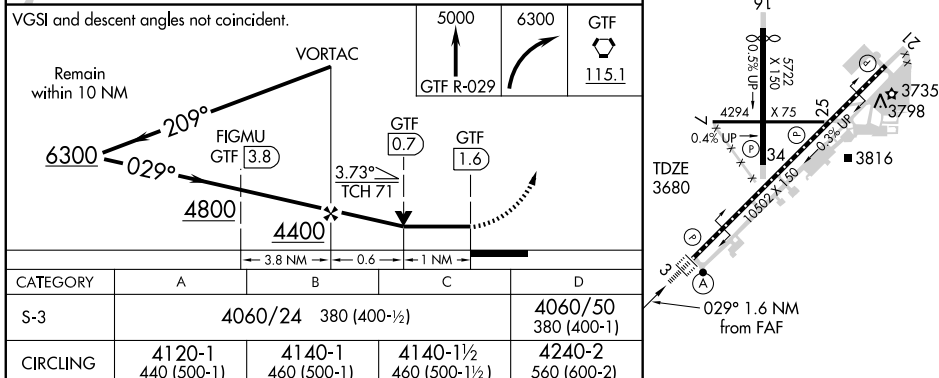
<p>▼ For inoperative ALSF-2, increase S-3 Cat. D visibility to RVR 6000.</p>	<p>ALSF-2</p>	<p>MISSED APPROACH: Climb to 5000 via GTF VORTAC R-029 then climbing right turn to 6300 direct GTF VORTAC and hold, continue climb-in-hold to 6300.</p>
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ATIS 126.6 269.0	GREAT FALLS APP CON 128.6 259.1	GREAT FALLS TOWER 118.7 282.2	GND CON 121.7 348.6	CLNC DEL 121.7 348.6
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ELEV 3680	D TDZ/CL Rwy 3 REIL Rwy 21 MIRL Rwy 7-25 HIRL Rwy 3-21 and 16-34
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VGSI and descent angles not coincident.



VORTAC GTF <u>115.1</u> Chan 98	APP CRS 209°	Rwy Idg 10502 TDZE 3669 Apt Elev 3680
---	------------------------	--

MISSED APPROACH: Climb direct to GTF VORTAC continue climb to 5500 in GTF VORTAC holding pattern.

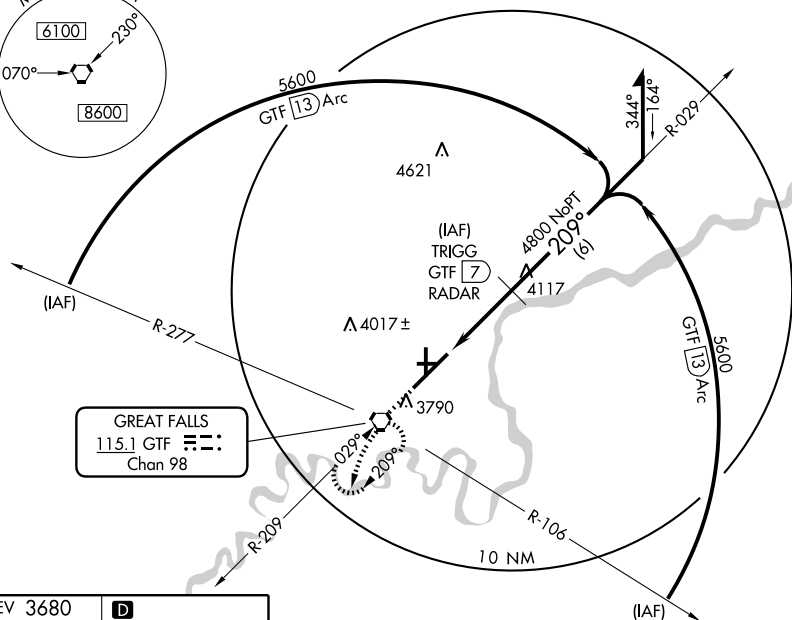
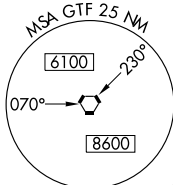
ATIS
126.6 269.0

GREAT FALLS APP CON
128.6 259.1

GREAT FALLS TOWER
118.7 282.2

GND CON
121.7 348.6

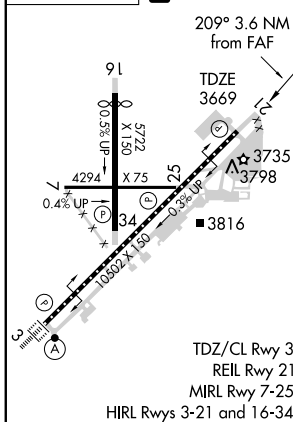
CLNC DEL
121.7 348.6



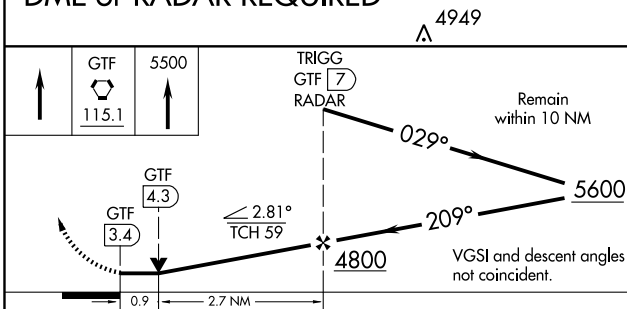
NW-1. 03 JUN 2010 to 01 JUL 2010

ELEV 3680

D



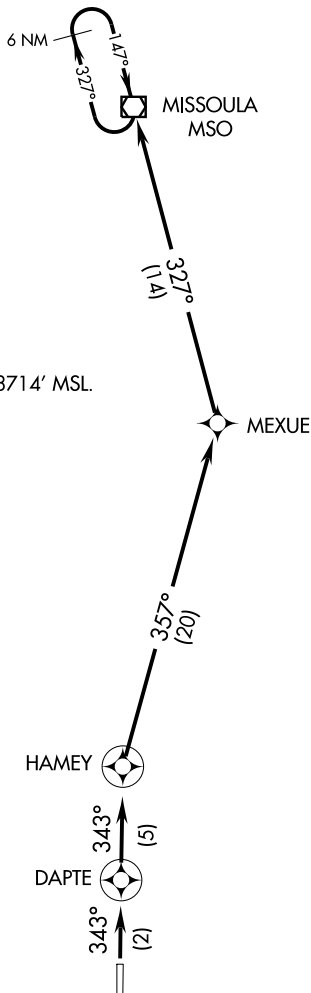
DME or RADAR REQUIRED



MIRL Rwy 7-25							CATEGORY		A		B		C		D	
HIRL Rwys 3-21 and 16-34							S-21		4000-1 331 (400-1)							
FAF to MAP 3.6 NM							CIRCLING		4120-1		4140-1		4140-1½		4240-2	
Knots	60	90	120	150	180	440 (500-1)			460 (500-1)		460 (500-1½)		560 (600-2)			
Min:Sec	3:36	2:24	1:48	1:26	1:12											

HAMEY ONE DEPARTURE (RNAV) (OBSTACLE)

SPOKANE DEP CON
124.9 298.95
SALT LAKE CITY CENTER
133.4 285.4



TAKE-OFF MINIMUMS

Rwy 16: NA, Obstacles.

Rwy 34: Standard.

TAKE-OFF OBSTACLES

Rwy 34: tree 1044' from DER,
258' right of centerline, 80' AGL/3714' MSL.

Rwy 16: NA, Obstacles.

NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

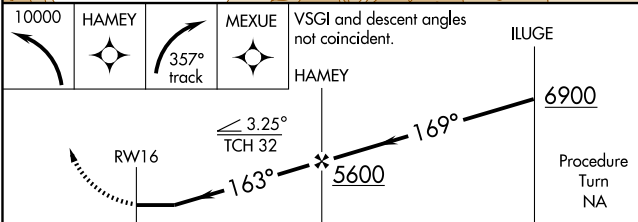
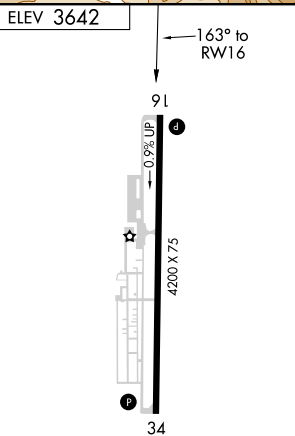
TAKE-OFF RWY 16: Not authorized, Obstacles.

TAKE-OFF RWY 34: Climb to 9000 direct DAPTE WP, direct HAMEY WP, then via depicted route to MSO VOR/DME, Thence....

....all aircraft climb in MSO VOR/DME holding pattern (hold NW, RT, 147° inbound) to cross MSO VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

HAMILTON/ RAVALLI COUNTY (6S5)

MISSED APPROACH: Climbing left turn to 10000 direct HAMEY WP and right turn via 357° track to MEXUE WP and hold.

UNICOM
122.8 (CTAF) **L**

	5.7 NM		8.2 NM	
CATEGORY	A	B	C	D
CIRCLING	4660-1¼ 1018 (1100-1¼)	4660-1½ 1018 (1100-1½)	NA	

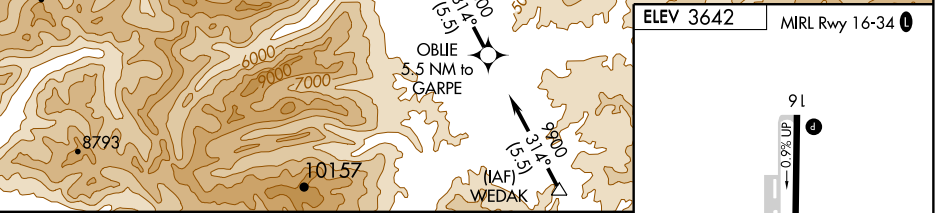
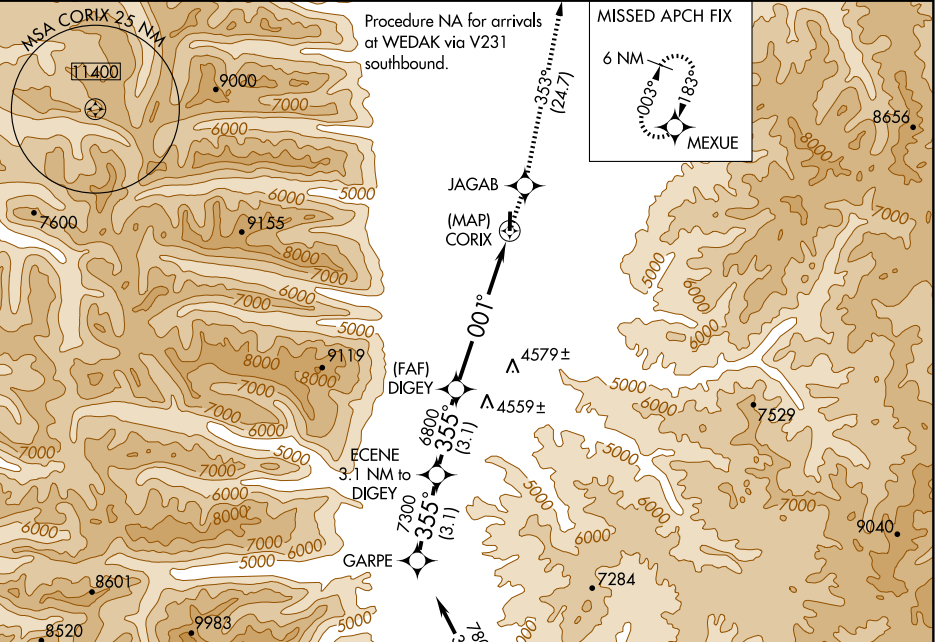
APP CRS	Rwy Idg	N/A
001°	TDZE	N/A
	Apt Elev	3642

RNAV (GPS)-B

HAMILTON/ RAVALLI COUNTY (6S5)

<div><div>▼</div><div>NA</div></div> <div>DME/DME RNP-0.3 NA. When local altimeter setting not received, procedure NA. Procedure NA at night.</div>	MISSED APPROACH: Climb to 10000 direct JAGAB WP and via 353° track to MEXUE WP and hold.
---	--

AWOS-A 119.825	SPOKANE APP CON★ 124.9 298.95	SALT LAKE CITY CENTER 132.4 338.3	UNICOM 122.8 (CTAF) 0
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GARPE		ECENE 3.1 NM to DIGEY		10000	JAGAB	353° trk	MEXUE
7800		DIGEY					
Procedure Turn NA		355°					
7300		DIGEY					
6800		CORIX					
3.1 NM		3.1 NM		6 NM			
CATEGORY	A	B	C	D			
CIRCLING	4740-1¼ 1098 (1100-1¼)	4740-1½ 1098 (1100-1½)	NA				

ELEV 3642

MIRL Rwy 16-34 0

91

0.2% UP

4200 X 75

34

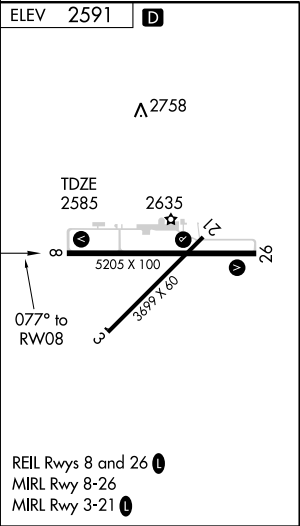
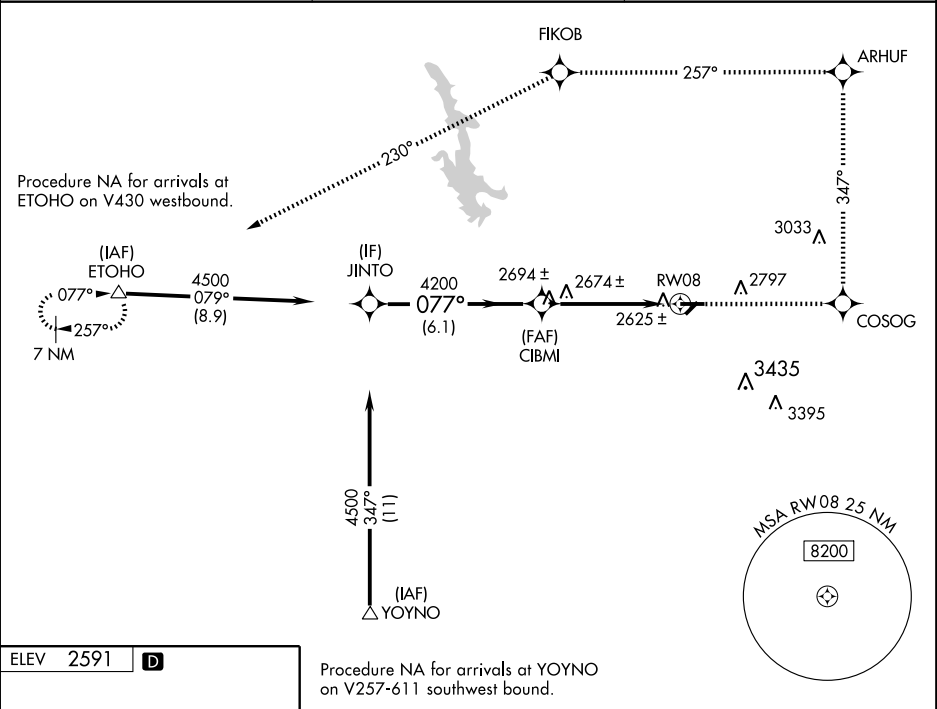
001° to CORIX

WAAS CH 99316 W08A	APP CRS 077°	Rwy Idg TDZE 5205 Apt Elev 2585 2591
--	------------------------	--

RNAV (GPS) RWY 8
HAVRE CITY-COUNTY(HVR)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F). DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climb to 8000 direct COSOG and left turn via track 347° to ARHUF and left turn via track 257° to FIKOB and via track 230° to ETOHO and hold.
--	--

ASOS 135.225	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF) 0
------------------------	------------------------------------	--

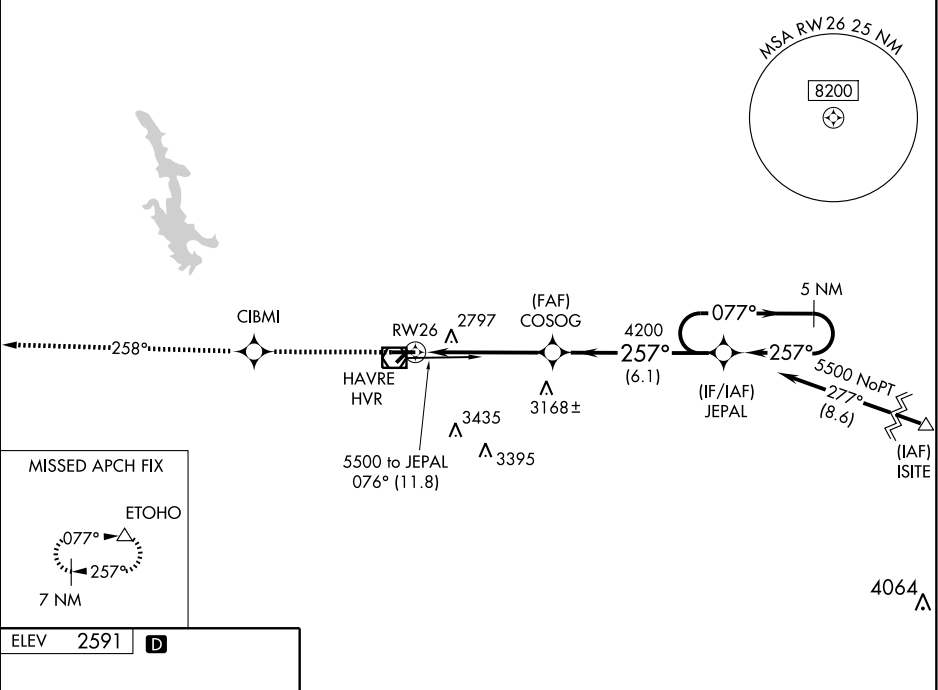


Procedure Turn NA	8000	COSOG	ARHUF	FIKOB	ETOHO
JINTO	↑	✧	trk 347°	trk 257°	trk 230°
4500					
		CIBMI			
GS 3.00° TCH 40					
	6.1 NM	3.6 NM	1.3 NM		
CATEGORY	A	B	C	D	
LPV DA	2835-1 250 (300-1)				
LNAV/VNAV DA	2906-1¼ 321 (400-1¼)				
LNAV MDA	3020-1	435 (500-1)	3020-1¼ 435 (500-1¼)	3020-1½ 435 (500-1½)	
CIRCLING	3060-1 469 (500-1)	3100-1 509 (600-1)	3100-1½ 509 (600-1½)	3160-2 569 (600-2)	

When VGSI inoperative, procedure NA at night. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 43°C (109°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 8000 direct CIBMI and via track 258° to ETOHO and hold, continue climb-in-hold to 8000.

ASOS 135.225	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF) 0
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VOR/DME HVR
111.8
Chan **55**

APP CRS
094°

Rwy Idg
TDZE
Apt Elev

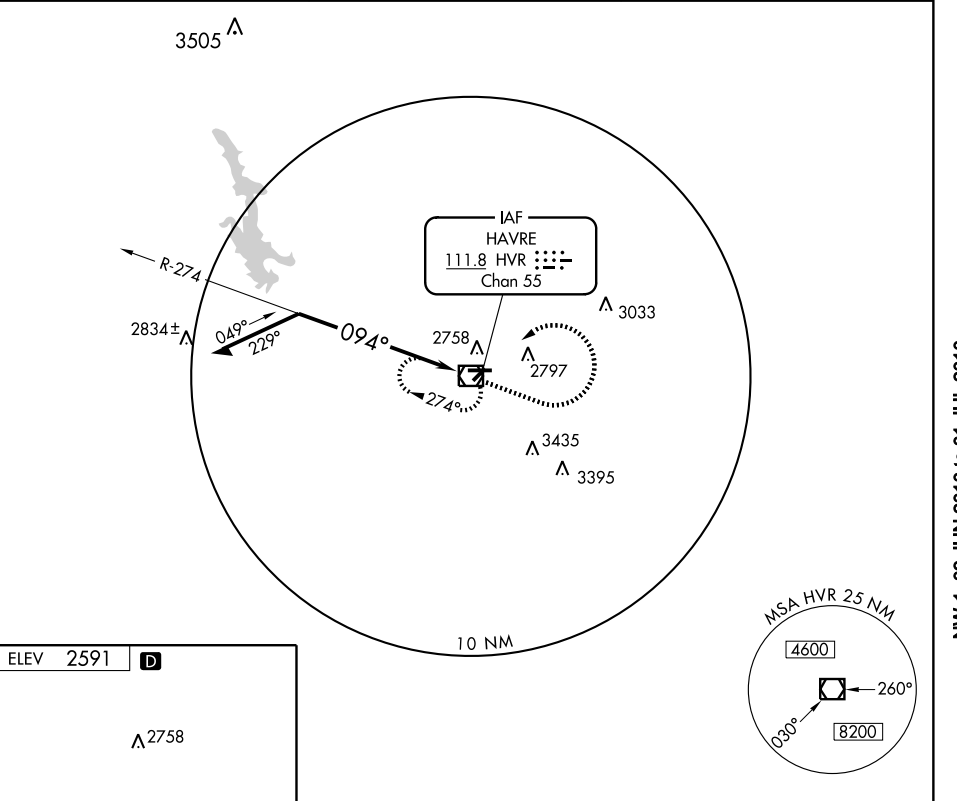
5205
2585
2591

VOR RWY 8

HAVRE CITY-COUNTY(HVR)

MISSED APPROACH: Climb to 3500 then climbing left turn to 8000 direct HVR VOR/DME and hold, continue climb-in-hold to 8000.

ASOS 135.225	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF)
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ELEV 2591

REIL Rwy 8 and 26
MIRL Rwy 8-26
MIRL Rwy 3-21

Remain within 10 NM

3500	8000	HVR
		111.8

CATEGORY	A	B	C	D
S-8	3140-1	555 (600-1)	3140-1½ 555 (600-1½)	3140-1¾ 555 (600-1¾)
CIRCLING	3140-1	549 (600-1)	3140-1½ 549 (600-1½)	3160-2 569 (600-2)

VOR/DME HVR

111.8

Chan 55

APP CRS

244°

Rwy Idg
TDZE
Apt Elev

5205
2586
2591

VOR RWY 26

HAVRE CITY-COUNTY (HVR)

▼
▲

Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4500 then climbing right turn to 8000 direct HVR/DME and hold, continue climb-in-hold to 8000.

ASOS

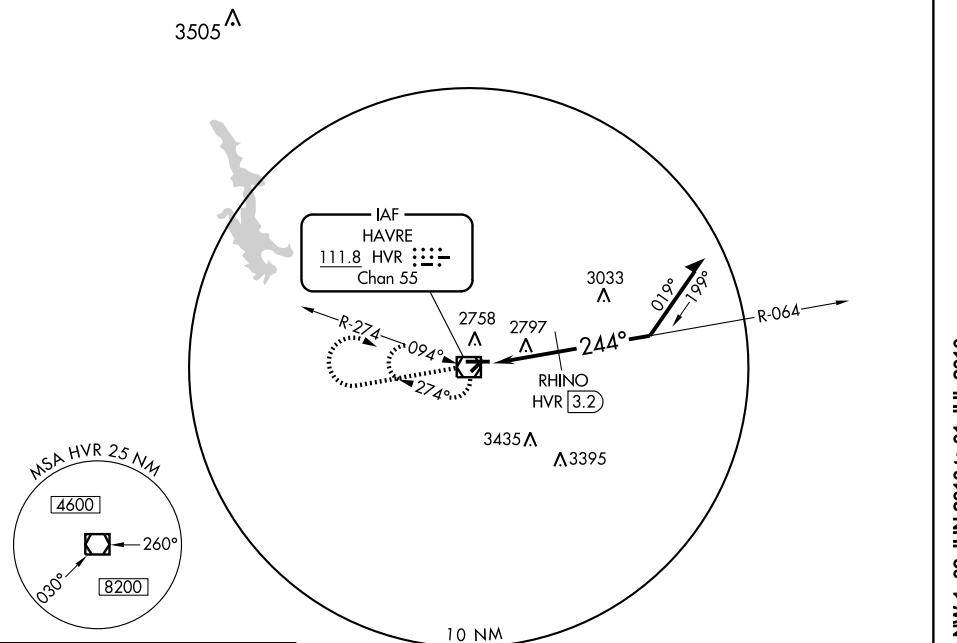
135.225

GREAT FALLS RADIO

123.65

UNICOM

122.8 (CTAF) 0



ELEV 2591

D

▲ 2758

2635

TDZE 2586

5205 X 100

369 X 60

26

244° to VOR/DME

REIL Rwy 8 and 26 0

MIRL Rwy 8-26

MIRL Rwy 3-21 0

4500

8000

HVR

VOR/DME

10000

064°

244°

4500

3480

3.2 NM

3.34°

TCH 38

RHINO HVR 3.2

Remain within 10 NM

VGSI and descent angles not coincident.

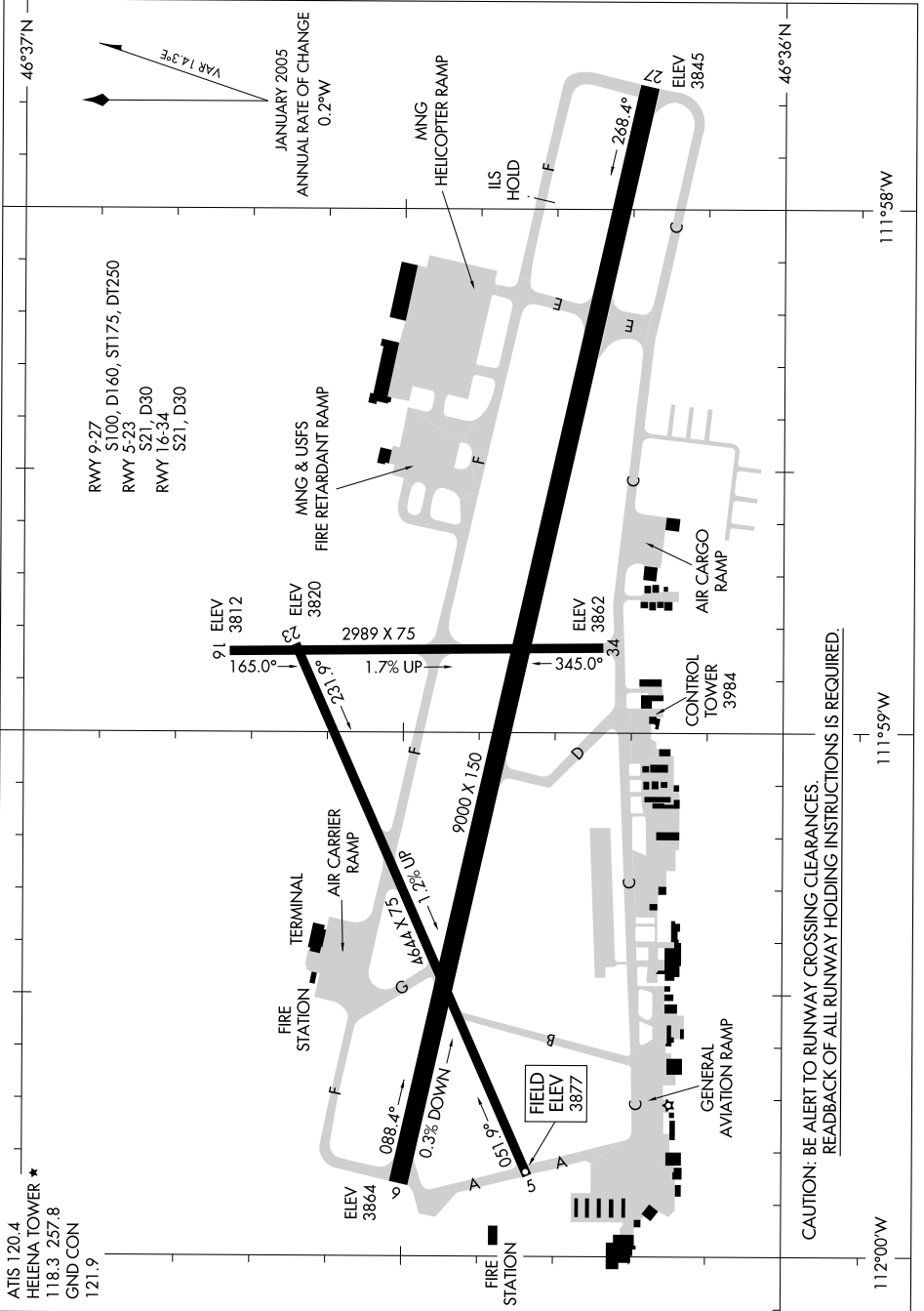
CATEGORY	A	B	C	D
S-26	3480-1¼	894 (900-1¼)	3480-2¾ 894 (900-2¾)	3480-3 894 (900-3)
CIRCLING	3480-1¼	889 (900-1¼)	3480-2¾ 889 (900-2¾)	3480-3 889 (900-3)
RHINO FIX MINIMUMS				
S-26	3060-1	474 (500-1)	3060-1¼ 474 (500-1¼)	3060-1½ 474 (500-1½)
CIRCLING	3060-1 469 (500-1)	3100-1 509 (600-1)	3100-1½ 509 (600-1½)	3160-2 569 (600-2)

NW-1, 03 JUN 2010 to 01 JUL 2010

AIRPORT DIAGRAM

AL-192 (FAA)

HELENA RGNL (HNLN)
HELENA, MONTANA



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

VORTAC HLN
117.7
Chan 124APCH CRS
251°Rwy Idg
TDZE
Arpt Elev 3874

N/A

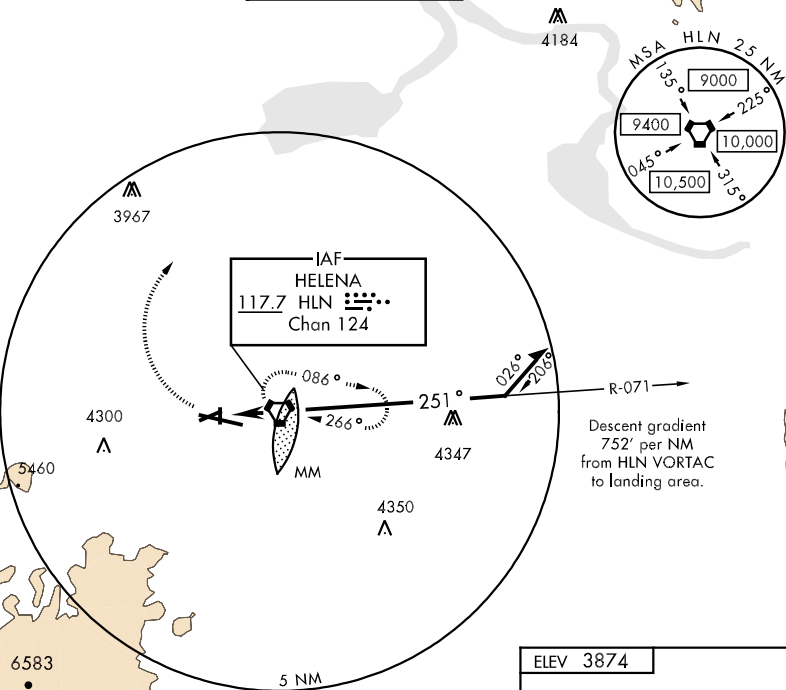
3848

3874

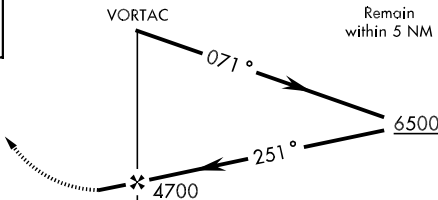
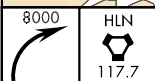
AL-192 [USA]

HELENA REGIONAL (KHLN)

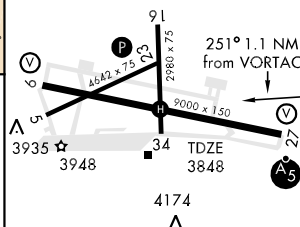
NA when tower clsd.

MISSED APPROACH: Climbing right turn to
8000 direct HLN VORTAC and hold.ATIS ★
120.4HELENA APP CON
119.5 229.4HELENA TOWER ★
118.3 (CTAF) 0 257.8GND CON
121.9UNICOM
122.95

COPTER ONLY

Final approach from holding pattern at HLN VORTAC
not authorized. Procedure turn required.

ELEV 3874

REIL Rwy 9
MIRL Rwy 5-23 and 16-34
HIRL Rwy 9-27

FAF to MAP 1.1 NM

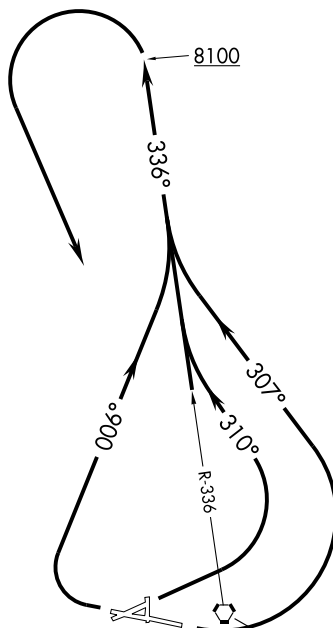
Knots	45	60	75	90	105
Min:Sec	1:28	1:06	0:53	0:44	0:37

HELENA THREE DEPARTURE

SL-192 (FAA)

HELENA RGNL (HLN)
HELENA, MONTANA

HELENA TOWER ★
118.3 (CTAF) 257.8
HELENA DEP CON ★
119.5 229.4
SALT LAKE CENTER
133.4 285.4

TAKE-OFF MINIMUMS

Rwy 5: Standard with minimum climb of 250 feet per NM to 8100.
Rwy 9: Standard with minimum climb of 240 feet per NM to 8100.
Rwys 16, 23: NA- obstacles.
Rwy 27: Standard with minimum climb of 390 feet per NM to 8100.
Rwy 34: NA- ATC.

HELENA
117.7 HLN
Chan 124
N46° 36.41' - W111° 57.21'
L-13, H-1

TAKE-OFF OBSTACLE NOTES

Rwy 5: Ground beginning 5' from DER, 495' right of centerline, up to 3826' MSL.
Fence beginning 423' from DER, 331' right of centerline, up to 10' AGL/ 3832' MSL.
Rwy 27: Building 1593' from DER, 731' left of centerline, 58' AGL/ 6385' MSL.
Ground beginning 101' from DER, 346' left of centerline, up to 3871' MSL.
Tree 1567' from DER, 616' left of centerline, 47' AGL/ 3906' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 5: Climbing left turn heading 310° to intercept HLN VORTAC R-336 to 8100', then climbing left turn to 9000' via HLN VORTAC R-336 to HLN VORTAC.

TAKE-OFF RUNWAY 9: Climbing left turn heading 307° to intercept HLN VORTAC R-336 to 8100', then climbing left turn to 9000' via HLN VORTAC R-336 to HLN VORTAC.

TAKE-OFF RUNWAY 27: Climbing right turn heading 006° to intercept HLN VORTAC R-336 to 8100', then climbing left turn to 9000' via HLN VORTAC R-336 to HLN VORTAC.

LOC I-HLN <u>110.1</u>	APP CRS 267°	Rwy Idg 9000 TDZE 3852 Apt Elev 3877
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ILS or LOC Z RWY 27

HELENA RGNI (HLN)

- T** Circling NA for Cats. D and E south of Rwy 9-27. DME Arc to final approach required for turbojet aircraft. Holding at HAU NDB authorized for Category A and B aircraft only. Inoperative table does not apply to S-LOC 27 Cats. A-B. For inoperative MALSR, increase S-LOC 27 Cat. E visibility to 3 miles, FERRI fix minimums: S-LOC 27 Cat E visibility to 3 miles.

MALSR



MISSED APPROACH: Climb to 4400 then climbing right turn to 9000 via heading 021° and HLN VORTAC R-336 to WOKEN INT and hold.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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MISSED APCH FIX

Missed approach obstructions require a minimum climb gradient of 320 feet/NM. If unable to meet rate of climb, see ILS or LOC Y RWY 27.

ENROUTE FACILITIES

ADF or DME
REQUIRED

4400 ↑	9000 ↻ 021°	HLN R-336 117.7	WOKEN △	FERRI OM	NDB HLN 8.4 67.12	One Minute Holding Pattern
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	* LOC only
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CATEGORY	A	B	C	D	E
S-ILS 27	4052-1/2 200 (200-1/2)				
S-LOC 27	5400-1 1/4 1548 (1600-1 1/4)	5400-1 1/2 1548 (1600-1 1/2)	5400-2 1/2 1548 (1600-2 1/2)		
CIRCLING	5400-1 1/4 1523 (1600-1 1/4)	5400-1 1/2 1523 (1600-1 1/2)	5400-3 1523 (1600-3)		
FERRI FIX MINIMUMS *					
S-LOC 27	4420-1/2 568 (600-1/2)		4420-1 568 (600-1)	4420-1 1/4 568 (600-1 1/4)	4420-1 1/2 568 (600-1 1/2)
CIRCLING	4640-1 763 (800-1)	4640-1 1/4 763 (800-1 1/4)	4740-2 1/2 863 (900-2 1/2)	4740-2 3/4 863 (900-2 3/4)	4840-3 963 (1000-3)

ELEV 3877

REIL Rwy 9 **L**
MIRL Rwy 5-23 and 16-34 **L**
HIRL Rwy 9-27 **L**

FAF to MAP 8.7 NM

Knots	60	90	120	150	180
Min:Sec	8:42	5:48	4:21	3:29	2:54

LOC I-HLN 110.1	APP CRS 087°	Rwy Idg TDZE Apt Elev N/A N/A 3877
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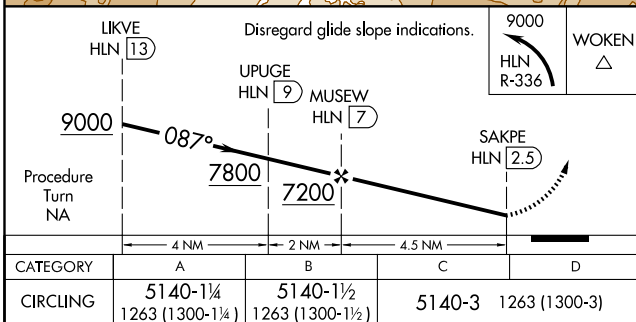
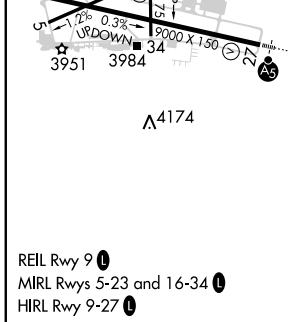
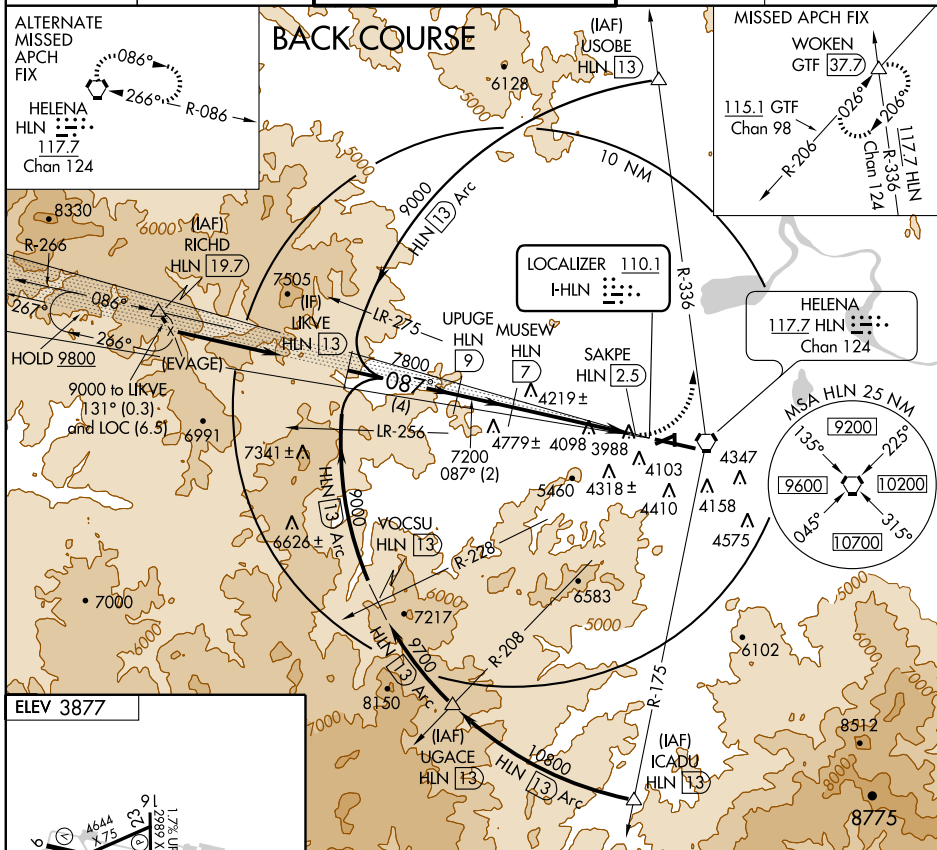
LOC/DME BC-C

HELENA RGNL (HLN)

▼ DME from HLN VORTAC, simultaneous reception of I-HLN and HLN DME required.
▲ Circling NA south of Rwy 9-27 for Cat D.

MISSED APPROACH: Climbing left turn to 9000 via HLN VORTAC R-336 to WOKEN INT and hold.

ATIS 120.4	HELENA APP CON* 119.5 229.4	HELENA TOWER* 118.3 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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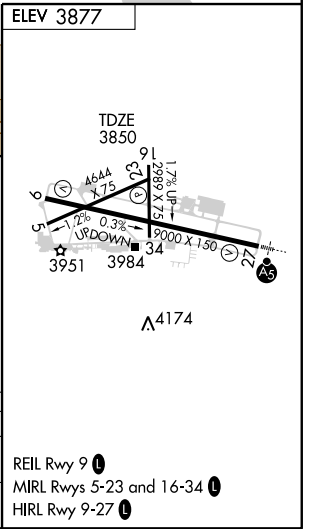
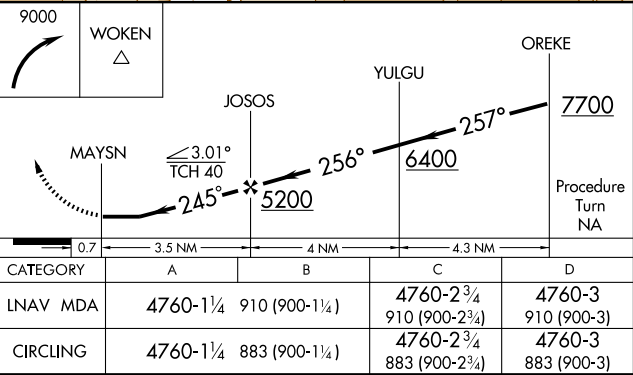
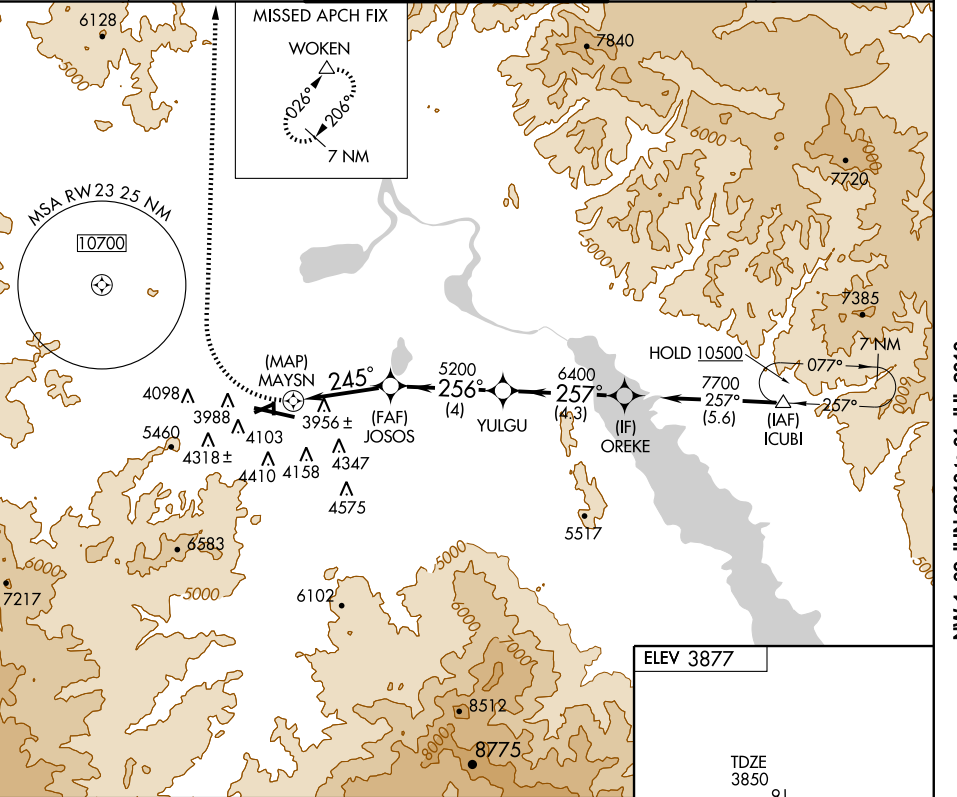
▼

▲

Circling NA for Cat D south of Rwy 9/27.
Visibility reduction by helicopters NA.
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing right turn to 9000 direct WOKEN and hold, continue climb-in-hold to 9000.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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WAAS CH 69405 W27A	APP CRS 267°	Rwy Idg TDZE Apt Elev	9000 3852 3877
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RNAV (GPS) X RWY 27

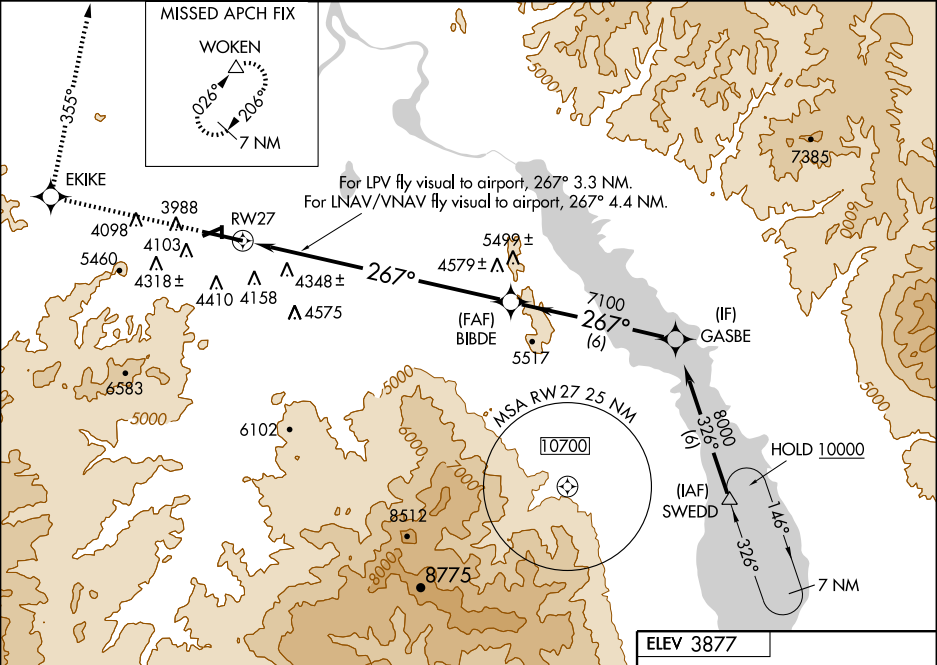
HELENA RGNL (HLN')

⚠ Circling NA for Cat D south of Rwy 9-27.
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -22°C (-7°F) or above 42°C (107°F). DME/DME RNP: 0.3 NA.
Inoperative table does not apply to LNAV Cats A-B.

MALSR

MISSED APPROACH: Climb to 9000
direct EKIKE and via 355° track
to WOKEN and hold.

ATIS 120.4	HELENA APP CON * 119.5 229.4	HELENA TOWER * 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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ELEV 3877

9000

355° track
WOKEN
△

Procedure Turn NA

LPV, fly visual, 267° 3.3 NM.
LNAV/VNAV, fly visual 267° 4.4 NM.

RW27
*4.8 NM to RW27
*LNAV only
BIBDE
7100
267°
8000
GS 3.00° TCH 55
GASBE

4.8 NM
5 NM
6 NM

CATEGORY	A	B	C	D
LPV DA	4965-2	1113 (1100-2)	4965-3	1113 (1100-3)
LNAV/VNAV DA	5289-2	1437 (1500-2)	5289-3	1437 (1500-3)
LNAV MDA	5440-1¼ 1588 (1600-1¼)	5440-1½ 1588 (1600-1½)	5440-2½ 1588 (1600-2½)	
CIRCLING	5440-1¼ 1563 (1600-1¼)	5440-1½ 1563 (1600-1½)	5440-3 1563 (1600-3)	

REIL Rwy 9

MIRL Rwy 5-23 and 16-34

HIRL Rwy 9-27

APP CRS	Rwy Idg
087°	TDZE
	3864
	Apt Elev
	3877

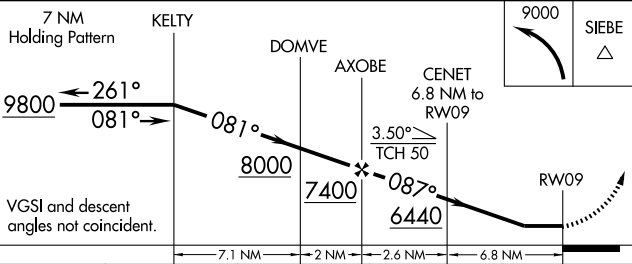
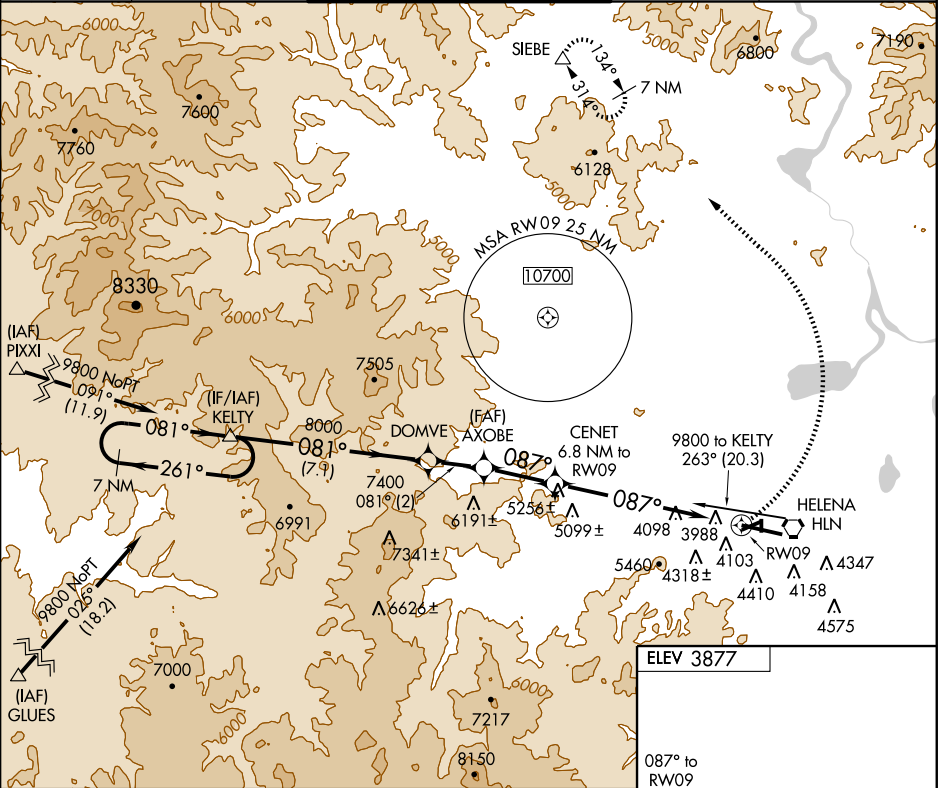
RNAV (GPS) Y RWY 9

HELENA RGNL (HLN)

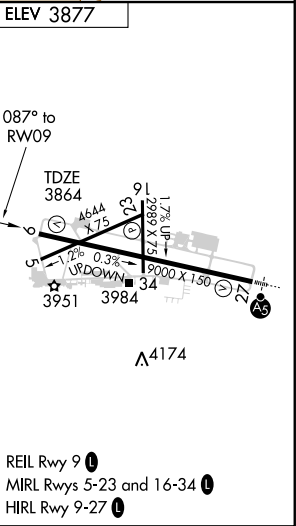
⚠ Circling NA for Cat D south of Rwy 9-27.
⚠ DME/DME RNP- 0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 9000 direct SIEBE and hold.

ATIS	HELENA APP CON ★	HELENA TOWER ★	GND CON	UNICOM
120.4	119.5 229.4	118.3 (CTAF) 257.8	121.9	122.95



CATEGORY	A	B	C	D
LNAV MDA	5440-1¼ 1576 (1600-1¼)	5440-1½ 1576 (1600-1½)	5440-3 1576 (1600-3)	
CIRCLING	5440-1¼ 1563 (1600-1¼)	5440-1½ 1563 (1600-1½)	5440-3 1563 (1600-3)	



APP CRS 267°	Rwy Idg 9000 TDZE 3852 Apt Elev 3877
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RNAV (RNP) Y RWY 27

HELENA RGNI (HLN)

- ▼ GPS required. For uncompensated Baro-VNAV systems, procedure NA below -22°C (-7°F) or above 41°C (105°F). For inoperative MALSR, increase RNP 0.22* visibility to 1, and RNP 0.30** visibility to 1½. Missed approach requires RNP less than 1.0. *Missed approach requires minimum climb of 290 feet per NM to 7700. **Missed approach requires minimum climb of 270 feet per NM to 7600; if unable, see RNAV (RNP) Z RWY 27.

MAISR



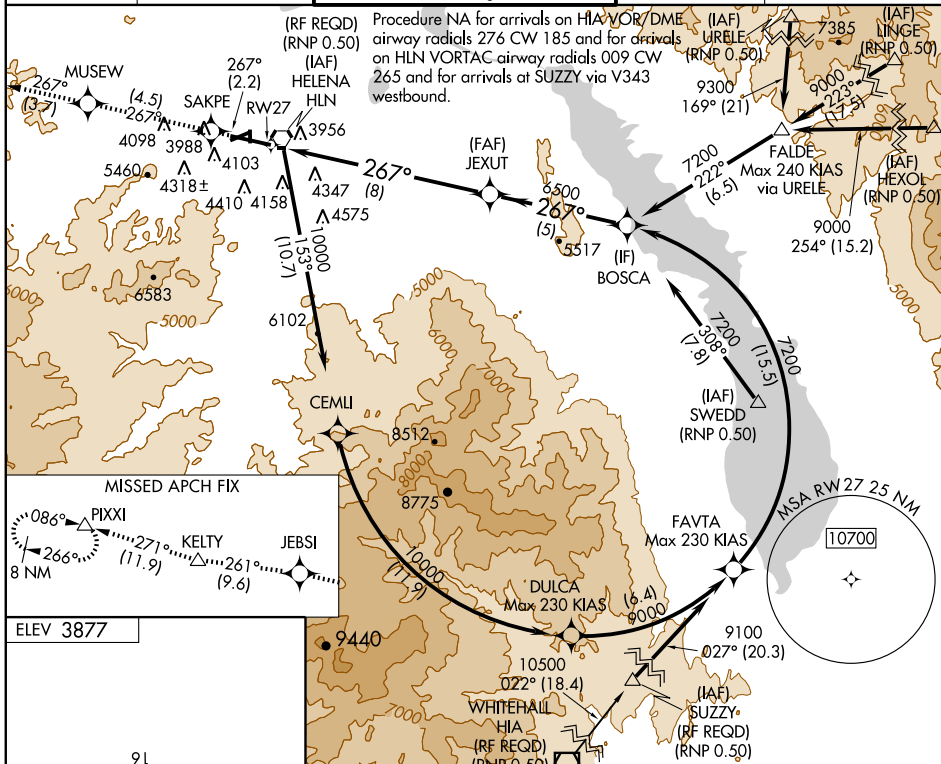
MISSED APPROACH: Climb to 13000 via 267° track to SAKPE, and via 267° track to MUSEW, and via 267° track to JEBSI, and via 261° track to KELTY, and via 271° track to PIXXI and hold, continue climb-in-hold to 13000.

ATIS
120.4

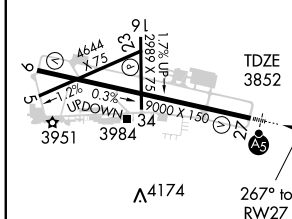
HELENA APP CON ★
119.5 229.4

HELENA TOWER ★
118.3 (CTAF) **L** 257.8

GND CO
121.9

UNICOM
122.95

ELEV 3877



13000

SAKPE

267°	
------	--

BOSCA
|

Procedure

Turn NA

0

0

GP 3 005

GP 3.00
 TCU 55

ICH 55

D

REIL Rwy 9 **L**
MIRL Rwys 5-23 and 16-34 **L**
HIRL Rwy 9-27 **L**

**SPECIAL AIRCRAFT AND AIRCREW
AUTHORIZATION REQUIRED**

RNAV (RNP) Z RWY 9

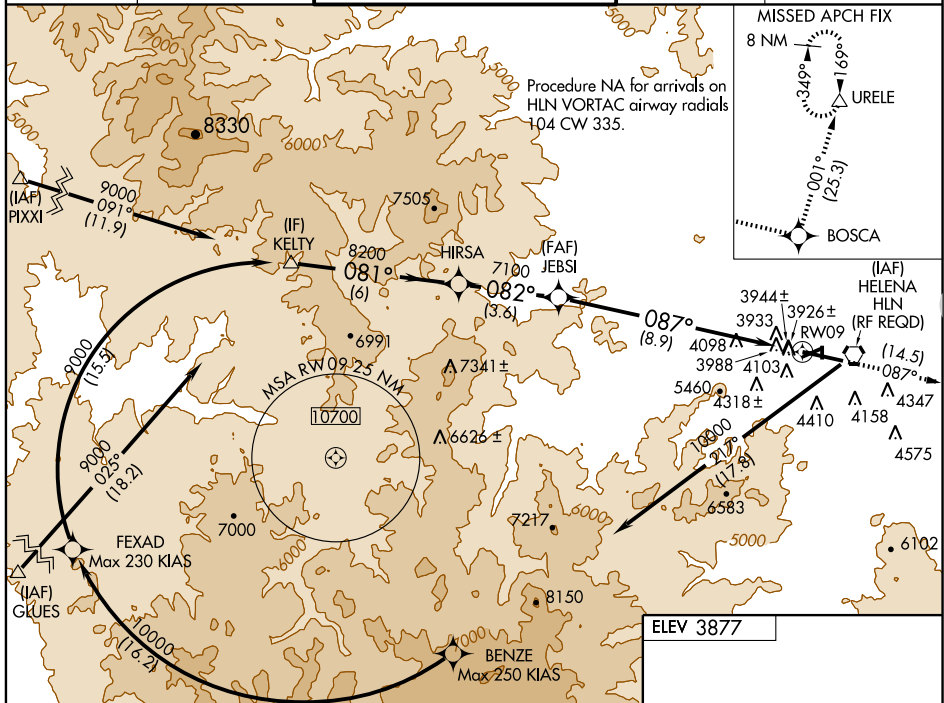
HELENA RGNL (HLN)

GPS required.

For uncompensated Baro-VNAV systems, procedure NA below -22°C (-7°F) or above 54°C (130°F).
When VGSI inoperative, procedure NA at night.
*Missed approach requires minimum climb of 260' per NM to 4300.

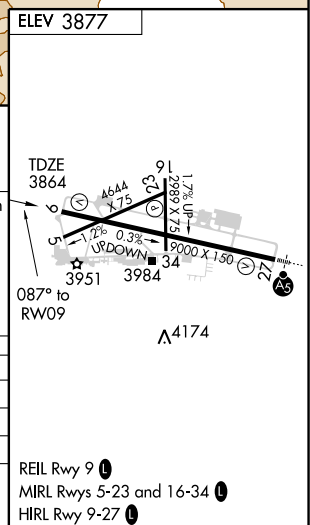
MISSED APPROACH: Climb to 12000 via 087° track to BOSCA and via 001° track to URELE and hold, continue climb-in-hold to 12000.

ATIS	HELENA APP CON *	HELENA TOWER *	GND CON	UNICOM
120.4	119.5 229.4	118.3 (CTAF) 0 257.8	121.9	122.95



CATEGORY	A	B	C	D
RNP 0.11 DA*	4220-1	356 (400-1)		NA
RNP 0.17 DA	4258-1¼	394 (400-1¼)		NA
RNP 0.30 DA	4353-1½	489 (500-1½)		NA

**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**



REIL Rwy 9

MIRL Rwy 5-23 and 16-34

HIRL Rwy 9-27

APP CRS 267°	Rwy Idg TDZE Apt Elev	9000 3852 3877
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RNAV (RNP) Z RWY 27

HELENA RGNL (HLN)

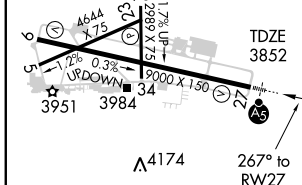
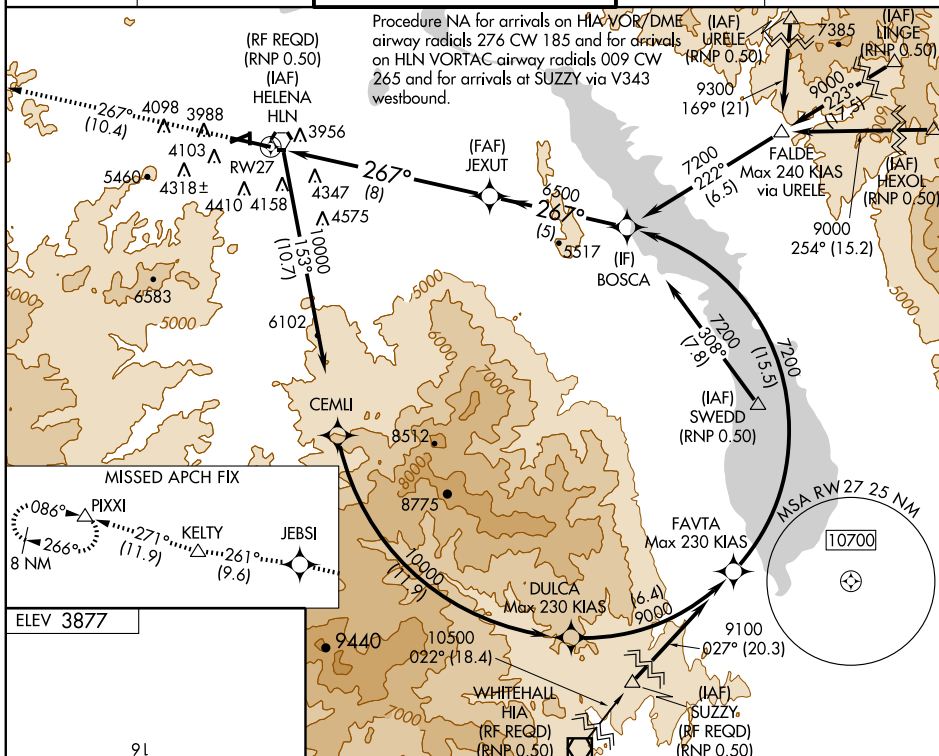
GPS required. For uncompensated Baro-VNAV systems, procedure NA below -22°C (-7°F) or above 41°C (105°F). *Missed approach requires minimum climb of 295 feet per NM to 7900. **Missed approach requires minimum climb of 290 feet per NM to 7300. ***Missed approach requires minimum climb of 405 feet per NM to 6300. For inoperative MALSR, increase RNP 0.18* visibility to 1, RNP 0.22** visibility to 1¼, and RNP 0.30*** visibility to 1½. Inoperative table does not apply to RNP 0.30.

MALSR



MISSED APPROACH: Climb to 13000 via 267° track to JEBSI, and via 261° track to KELTY, and via 271° track to PIXXI and hold, continue climb-in-hold to 13000.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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13000	JEBSI	261° track	KELTY	JEXUT	BOSCA	Procedure Turn NA
267°				6500	7200	
	RWY 27			6500		
	8 NM	5 NM				
CATEGORY	A	B	C	D		
RNP 0.18 DA*		4119-½	267 (300-½)			
RNP 0.22 DA**		4212-¾	360 (400-¾)			
RNP 0.30 DA***		4287-1	435 (500-1)			
RNP 0.30 DA		4863-4	1011 (1000-4)			

SPECIAL AIRCRAFT AND AIRCREW
AUTHORIZATION REQUIRED


REIL Rwy 9 0

MIRL Rwy 5-23 and 16-34 0

HIRL Rwy 9-27 0

ATIS 120.4
GND CON
121.9
HELENA TOWER ★
118.3 (CTAF) 257.8
HELENA DEP CON ★
119.5 229.4


SIEBE
N46° 53.09'
W112° 09.08'
L-13

GREAT FALLS
115.1 GTF 
Chan 98



NOTE: Rwy 9, 1500-2 or standard
with minimum climb of
360 feet per NM to 6500 feet.

NOTE: Rwy 27, 2400-2 or standard
with minimum climb of
355 feet per NM to 7100 feet.

HELENA
117.7 HLN 
Chan 124
N46° 36.41' - W111° 57.21'

NOTE: Chart not to scale.



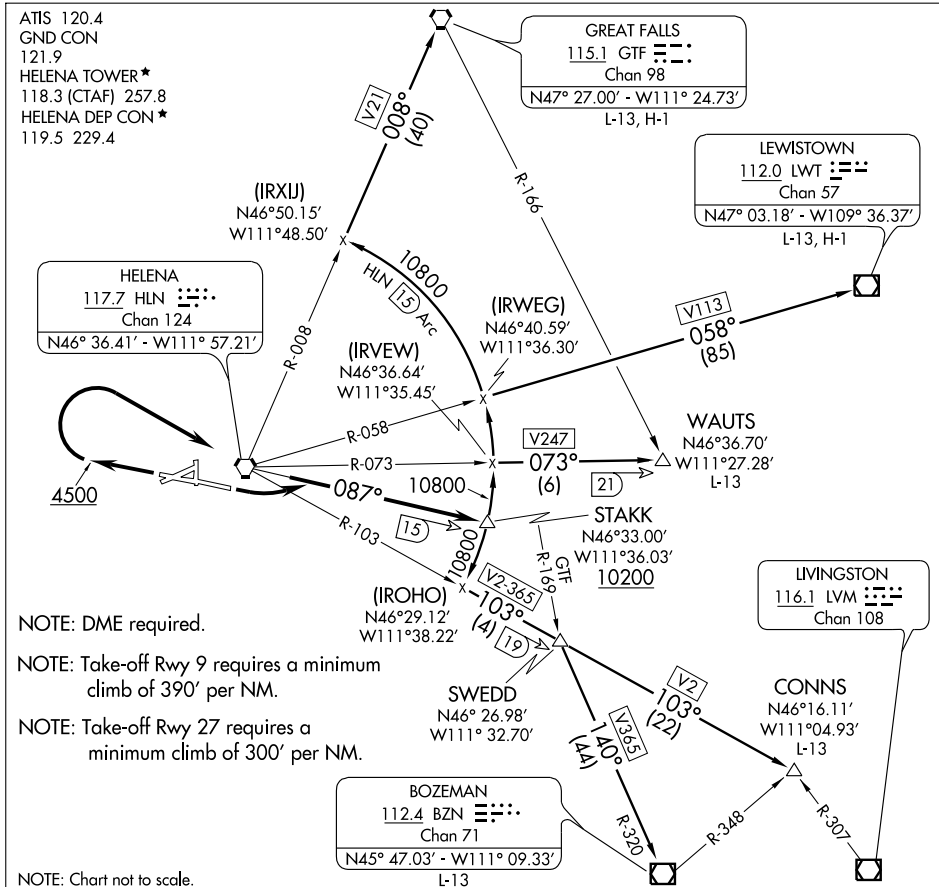
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climbing left turn, thence. . . .

TAKE-OFF RUNWAY 27: Climbing right turn, thence. . . .

. . . . Intercept HLN R-318 to SIEBE INT.

STAKK TWO DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climbing left turn to intercept HLN R-087 to cross STAKK INT at or above 10200'. Thence via transition.

TAKE-OFF RUNWAY 27: Climb on runway heading to 4500' then climbing right turn direct HLN VORTAC. Continue climb on HLN R-087 to cross STAKK INT at or above 10200'. Thence via transition.

BOZEMAN TRANSITION (STAKK2.BZN): From over STAKK INT via 15 DME Arc and V365 to BZN VOR/DME.

CONNIS TRANSITION (STAKK2.CONNIS): From over STAKK INT via 15 DME Arc and V2 to CONNIS INT.

GREAT FALLS TRANSITION (STAKK2.GTF): From over STAKK INT via 15 DME Arc and V21 to GTF VORTAC.

LEWISTOWN TRANSITION (STAKK2.LWT): From over STAKK INT via 15 DME Arc and V113 to LWT VORTAC.

WAUTS TRANSITION (STAKK2.WAUTS): From over STAKK INT via 15 DME Arc and V247 to WAUTS INT.

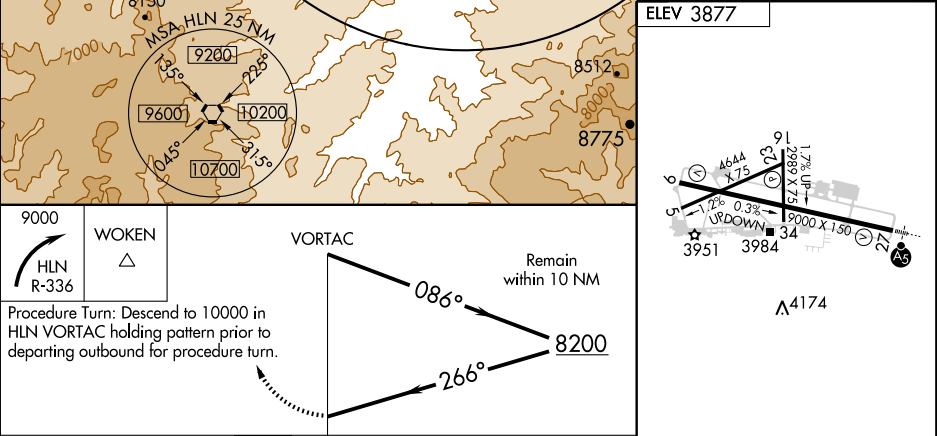
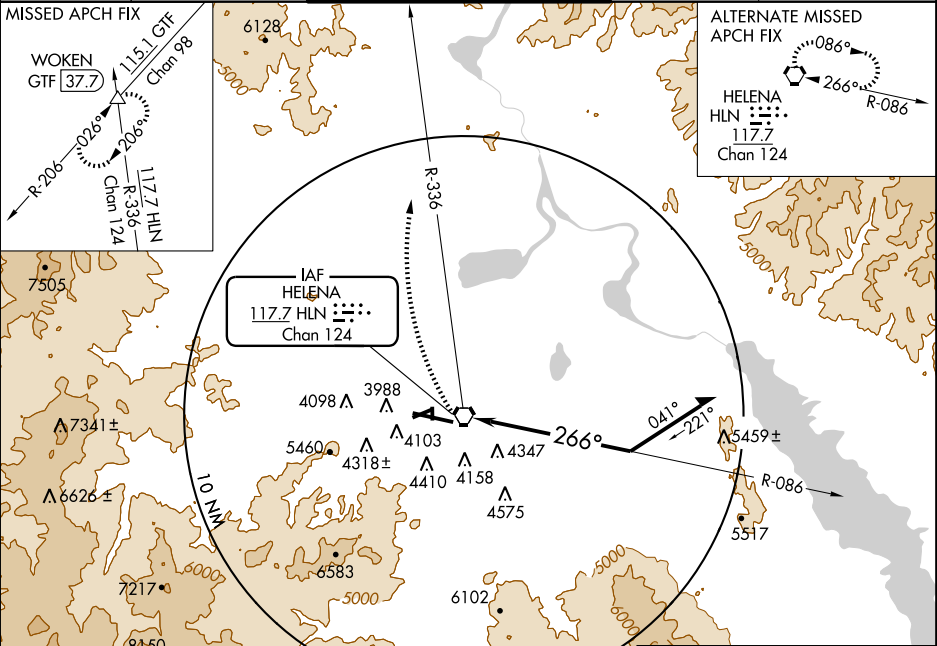
VORTAC HLN	APP CRS	Rwy Idg	N/A
117.7	266°	TDZE	N/A
Chan 124		Apt Elev	3877

VOR-A
HELENA RGNL (HLN)

⚠ Circling NA for Cat D south of Rwy 9-27.

MISSED APPROACH: Climbing right turn to 9000 via HLN VORTAC R-336 to WOKEN INT and hold.

ATIS 120.4	HELENA APP CON★ 119.5 229.4	HELENA TOWER★ 118.3 (CTAF) 257.8	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
CIRCLING	6700-1¼ 2823 (2900-1¼)	6700-1½ 2823 (2900-1½)	6700-3 2823 (2900-3)	

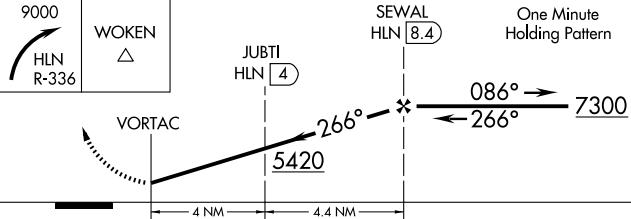
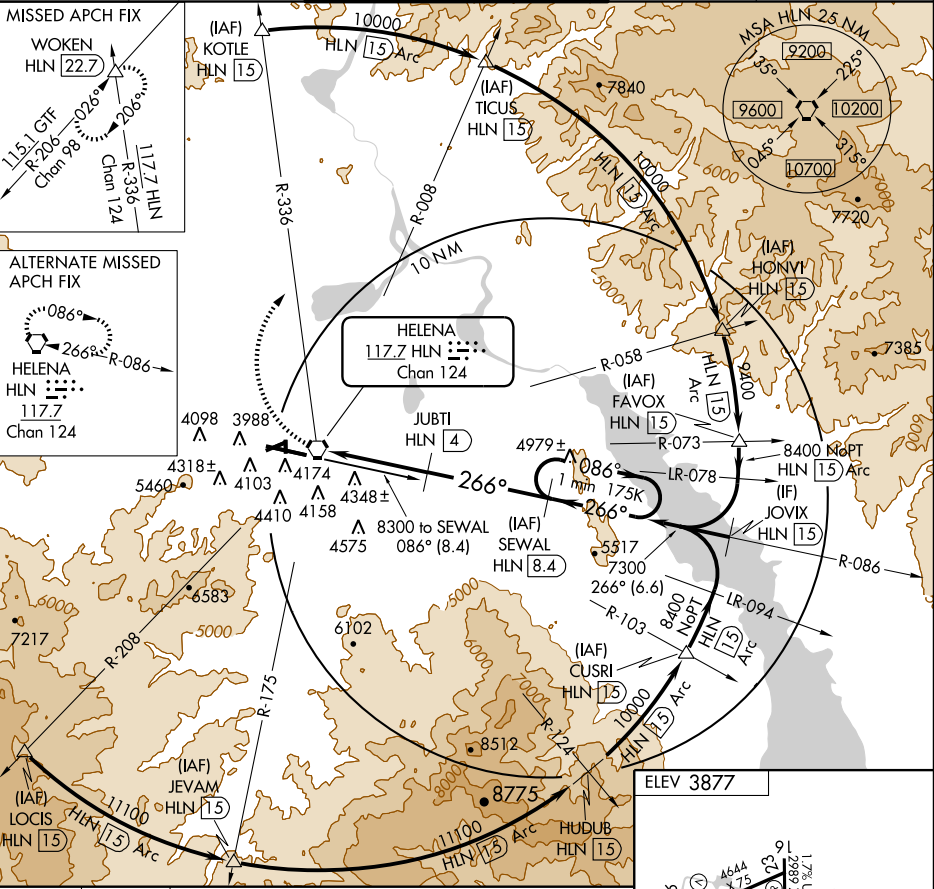
REIL Rwy 9
MIRL Rws 5-23 and 16-34
HIRL Rwy 9-27

VORTAC HLN 117.7 Chan 124	APP CRS 266°	Rwy Idg TDZE Apt Elev N/A N/A 3877
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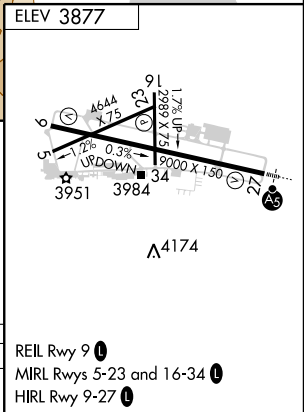
⚠ Circling NA for Cat D south of Rwy 9-27.
⚠ DME Arc to final approach course required for turboprop aircraft.
Holding at SEWAL authorized for Cat A and B aircraft only.

MISSED APPROACH: Climbing right turn to 9000
via HLN VORTAC R-336 to WOKEN INT/22.7 DME
and hold.

ATIS 120.4	HELENA APP CON ★ 119.5 229.4	HELENA TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	UNICOM 122.95
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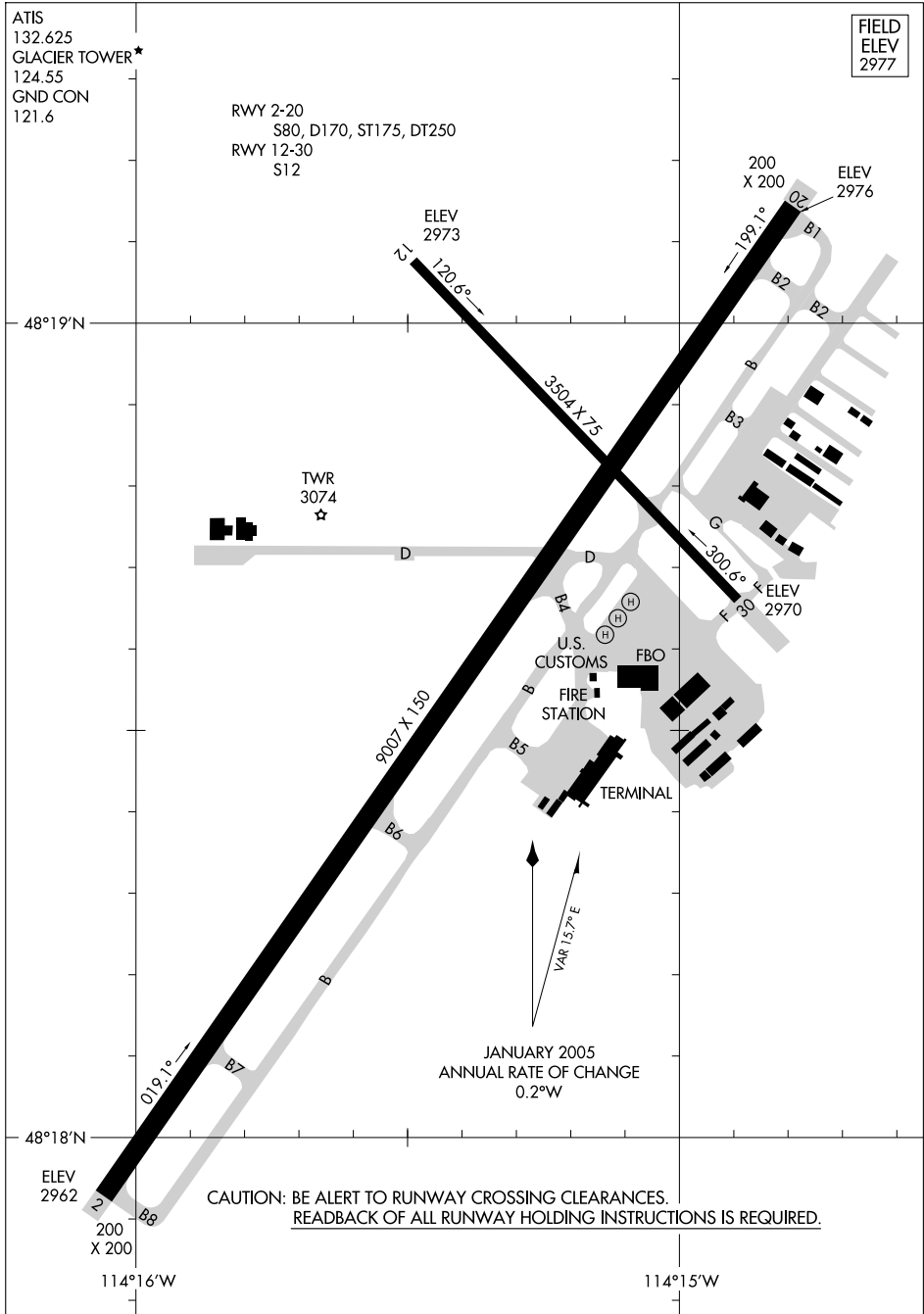


CATEGORY	A	B	C	D
CIRCLING	4760-1¼ 883 (900-1¼)	4760-2¾ 883 (900-2¾)	4760-3 883 (900-3)	4760-3 883 (900-3)



AIRPORT DIAGRAM

AL-887 (FAA)

KALISPELL/GLACIER PARK INTL (GPI)
KALISPELL, MONTANA

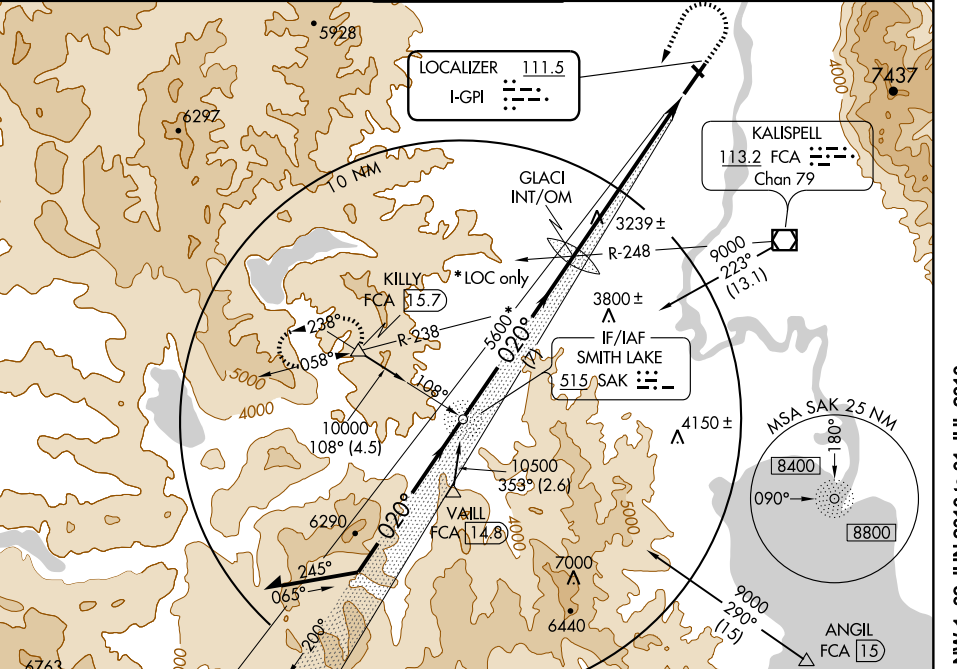
LOC I-GPI	APP CRS	Rwy Idg	9007
111.5	020°	TDZE	2966
		Apt Elev	2977

ADF required.

MALS R

MISSED APPROACH: Climb to 4100, then climbing left turn to 12000 via heading 190° and via FCA VOR/DME R-238 to KILLY INT/FCA 15.7 DME and hold, continue climb-in-hold to 12000.

ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER * 124.55 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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ELEV 2977	REIL Rwy 20 0
	MIRL Rwy 12-30 0
	HIRL Rwy 2-20 0

ADF REQUIRED

Remain within 10 NM

NDB

7800

020°

7800

7590

200°

7800

5600

7 NM

6.8 NM

GLACI INT/OM

5234

4100

12000

hdg 190°

FCA R-238

KILLY

* LOC only

CATEGORY	A	B	C	D
S-ILS 2	3166-½ 200 (200-½)			
S-LOC 2	3540-½ 574 (600-½)	3540-1 574 (600-1)	3540-2 574 (600-1¼)	3540-1¼ 574 (600-1¼)
CIRCLING	3540-1 563 (600-1)	3640-1¾ 663 (700-1¾)	3640-2 663 (700-2)	3640-2 663 (700-2)

TWR 3074

TDZE 2966

020° 6.8 NM from FAF

FAF to MAP 6.8 NM

Knots

60 90 120 150 180

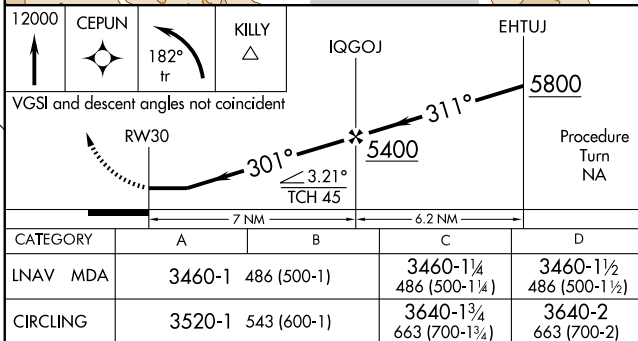
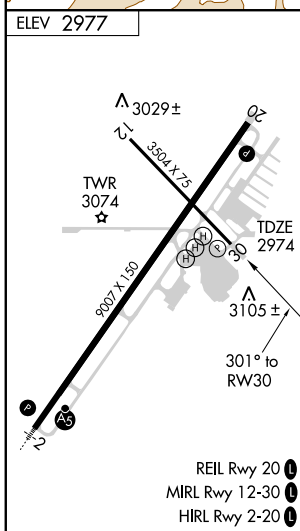
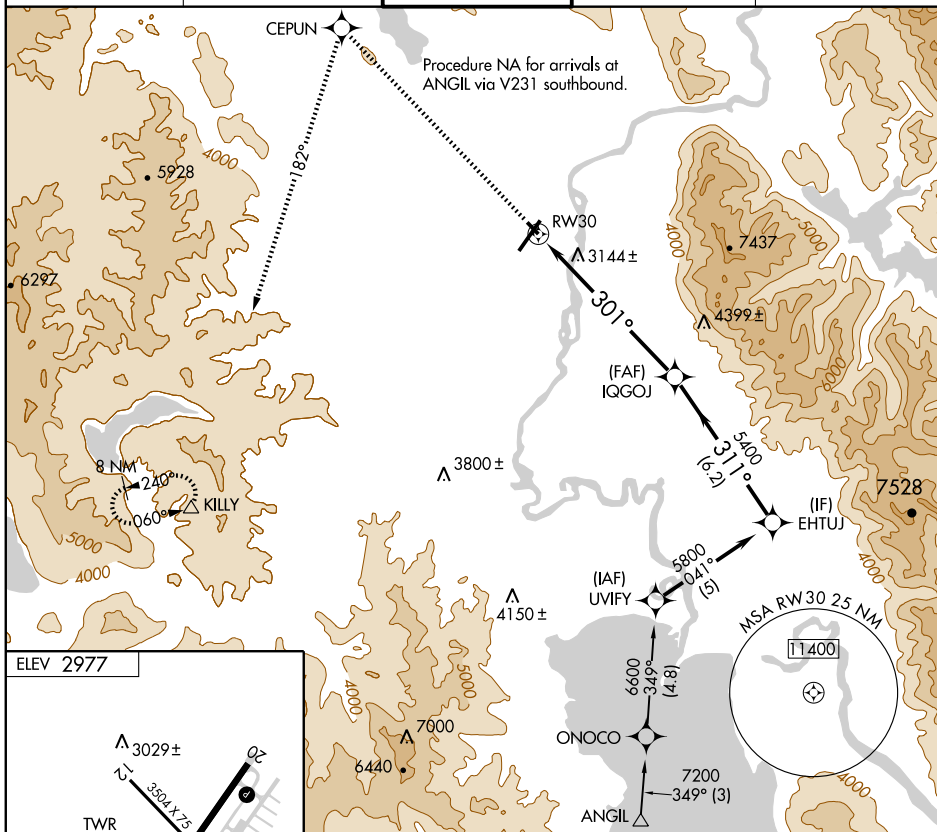
Min:Sec 6:48 4:32 3:24 2:43 2:16

NW-1, 03 JUN 2010 to 01 JUL 2010

RNAV (GPS) RWY 30

KALISPELL/ GLACIER PARK INTL (GPI)

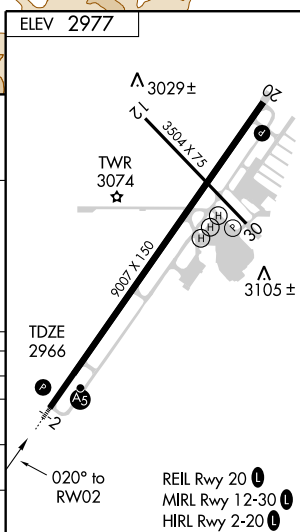
MISSED APPROACH: Climb to 12000 direct CEPUN and left turn via track 182° to KILLY and hold, continue climb-in-hold to 12000.

UNICOM
122.95

RNAV (GPS) Z RWY 2
KALISPELL/ GLACIER PARK INTL (GPI)

MALSR

MISSED APPROACH: Climb to 9000 direct CUTUT and via track 290° to KECEK and via track 209° to BOFVY and hold.

UNICOM
122.95

APP CRS	Rwy Idg	9007
200°	TDZE	2977
	Apt Elev	2977

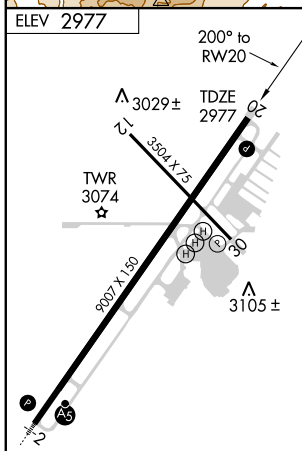
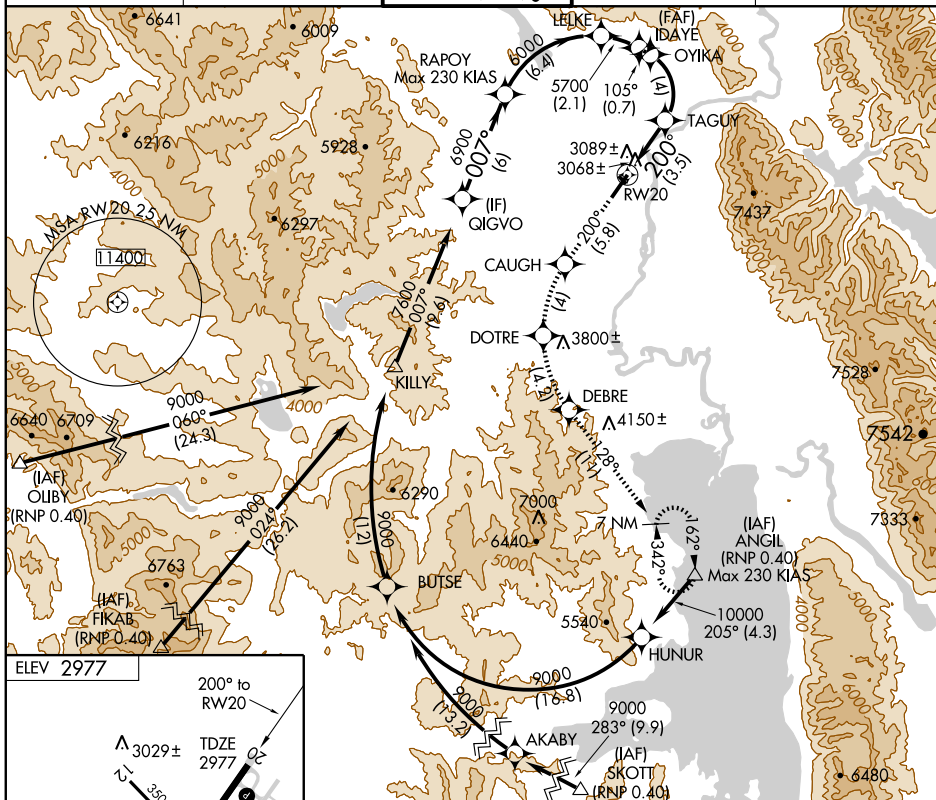
RNAV (RNP) RWY 20

KALISPELL/ GLACIER PARK INTL (GPI)

RF and GPS required. For uncompensated Baro-VNAV systems, procedure NA below -21°C (-5°F) or above 43°C (109°F).
***Missed approach requires minimum climb of 235 feet per NM to 6900.**
 Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 10000 via 200° track to CAUGH and via left turn to DOTRE, and via left turn to DEBRE, and via 128° track to ANGL and hold, continue climb-in-hold to 10000.

ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER* 124.55 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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10000	CAUGH	DOTRE	IDAYE	LELKE	RAPPOY	QIGVO
200° tr						
	TAGUY	OYIKA	5700			
	4147	5474	105°	6000		
	200°			5700		
	3.5 NM	4 NM	0.7 NM	2.1 NM	6.4 NM	6 NM
CATEGORY	A	B	C	D		
RNP 0.10 DA*		3344-1¼	367 (400-1¼)			
RNP 0.30 DA*		3446-1¾	469 (500-1¾)			
RNP 0.30 DA		3662-2½	685 (700-2½)			

**SPECIAL AIRCRAFT AND AIRCREW
AUTHORIZATION REQUIRED**

APP CRS	Rwy Idg	9007
020°	TDZE	2966
	Apt Elev	2977

RNAV (RNP) Y RWY 2

KALISPELL/ GLACIER PARK INTL (GPI)

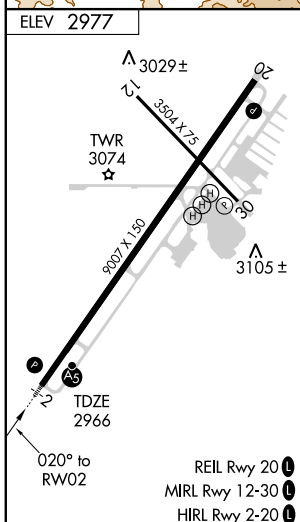
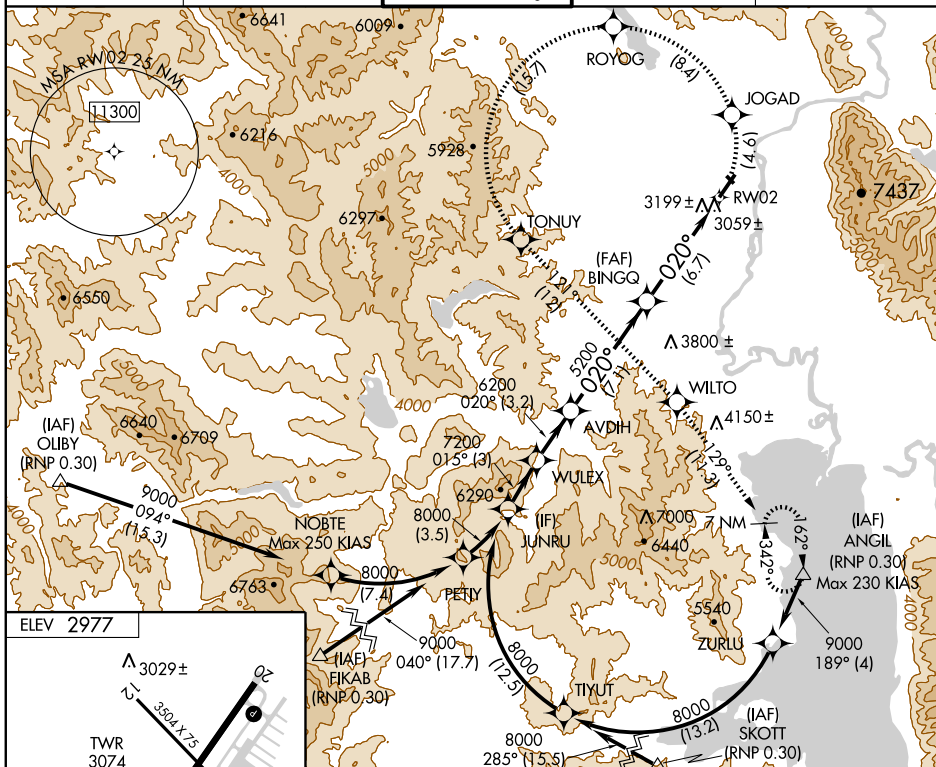
- ▼ RF and GPS required.
 ▲ *Missed approach requires minimum climb of 220 feet per NM to 6100.
 ▲ Missed approach requires RNP less than 1.0.
 For uncompensated Baro-VNAV systems, procedure NA below
 -21°C (-5°F) or above 43°C (109°F). For inoperative MALSR
 increase RNP 0.10 * visibility to 1¼ and RNP 0.30 visibility to 2.

MALSR



MISSED APPROACH: Climb to 10000 via left turn to JOGAD, and via left turn to ROYOG and via left turn to TONUY, and via 121° track to WILTO and via 129° track to ANGIL and hold.

ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER ★ 124.55 (CTAF) 0	GND CON 121.6	UNICOM 122.95
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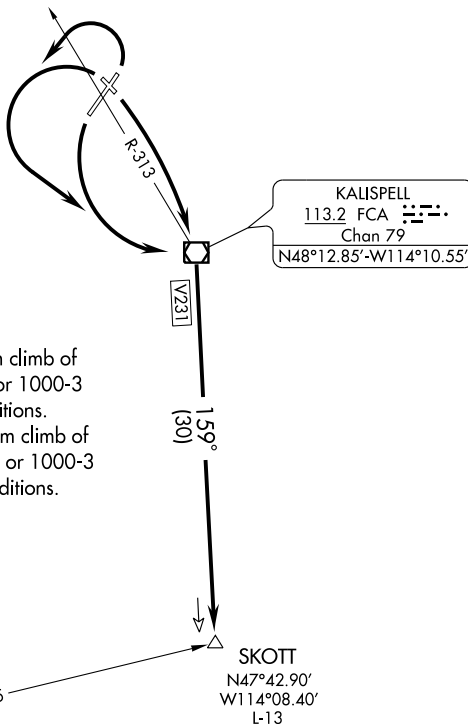
	JUNRU	WULEX	AVDIH	10000	JOGAD	ROYOG
	8000	7200	6200	5200		
Procedure	Turn NA	015°	020°			
GP 3.00°						
TCH 51						
	3 NM	3.2 NM	7.1 NM	6.7 NM		
CATEGORY	A	B	C	D		
RNP 0.10 DA*	NA	3340-¾	374 (400-¾)			
RNP 0.30 DA	NA	3522-1½	556 (600-1½)			

**SPECIAL AIRCRAFT AND AIRCREW
AUTHORIZATION REQUIRED**

SKOTT ONE DEPARTURE (OBSTACLE)

KALISPELL, MONTANA

SALT LAKE CENTER
133.4 285.4
GREAT FALLS RADIO
122.6
GLACIER TOWER★
124.55



TAKE-OFF MINIMUMS

Rwys 12, 20: Standard.

Rwy 2: Standard with minimum climb of
444' per NM to 7500 or 1000-3
for climb in visual conditions.

Rwy 30: Standard with minimum climb of
249' per NM to 5900 or 1000-3
for climb in visual conditions.

TAKE-OFF OBSTACLE NOTES

Rwy 2: Multiple trees beginning 1468' from DER, 674' right of centerline, up to 91' AGL/3061' MSL.

Rwy 12: Multiple trees beginning 1426' from DER, 543' left of centerline, up to 129' AGL/3082' MSL.

Railroad 702' from DER, 317' left of centerline, 31' AGL/2997' MSL.

Road 544' from DER, 299' left of centerline, 22' AGL/2988' MSL.

Rwy 20: Multiple trees beginning 2742' from DER, 1140' left of centerline, up to 107' AGL/3169' MSL.

Rwy 30: Multiple trees beginning 1848' from DER, 722' left of centerline, up to 104' AGL/3067' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 2: Climbing left turn direct FCA VOR/DME, thence.... or, climb in visual conditions to cross Glacier Park Intl Airport southeast bound at or above 3800, then via FCA R-313 to FCA VOR/DME, thence....

TAKE-OFF RUNWAY 30: Climbing left turn direct FCA VOR/DME, thence.... or, climb in visual conditions to cross Glacier Park Intl Airport southeast bound at or above 3800, then via FCA R-313 to FCA VOR/DME, thence....

TAKE-OFF RUNWAY 12: Climbing right turn direct FCA VOR/DME, thence....

TAKE-OFF RUNWAY 20: Climbing left turn direct FCA VOR/DME, thence....

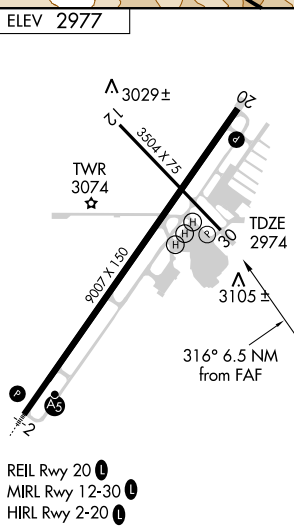
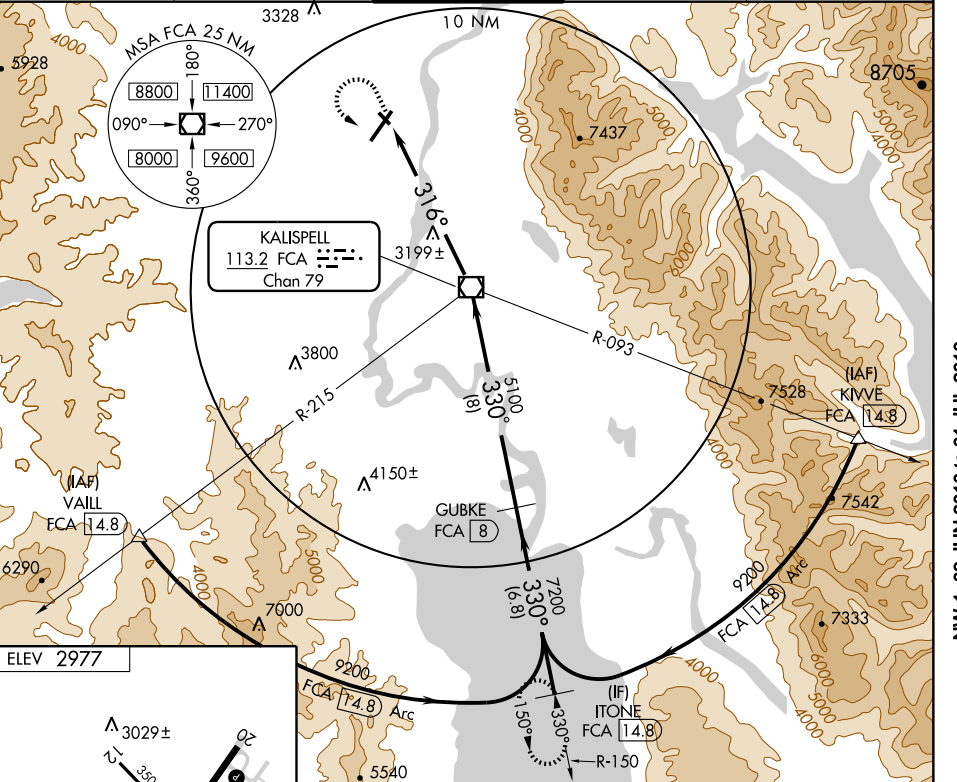
....continue climb to 10,000 via FCA R-159 to SKOTT INT.

▼

Visibility reduction by helicopters not authorized.
When VGSI inoperative, straight-in minimums not authorized at night.

MISSED APPROACH: Climb to 4000 then climbing left turn to 9300 via heading 130° and FCA R-150 to ITONE/14.8 DME and hold, continue climb-in-hold to 9300.

ATIS 132.625	SALT LAKE CENTER 133.4 285.4	GLACIER TOWER★ 124.55 (CTAF) 0	GND CON 121.6	UNICOM 122.95
-----------------	---------------------------------	-----------------------------------	------------------	------------------



4000		9300	FCA R-150	ITONE 14.8	VGSI and descent angles not coincident.		ITONE FCA 14.8
↑		hdg 130°					
				VOR/DME		GUBKE FCA 8	
				FCA 6.5			
				≤3.04° TCH 30			
				316°			
				5100			
				6.5 NM	8 NM	6.8 NM	
							Procedure Turn NA
CATEGORY	A	B	C	D			
S-30	3480-1	506 (600-1)	3480-1½	506 (600-1½)			
CIRCLING	3520-1	543 (600-1)	3640-1¾ 663 (700-1¾)	3640-2 663 (700-2)			

NW-1. 03 JUN 2010 to 01 JUL 2010

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

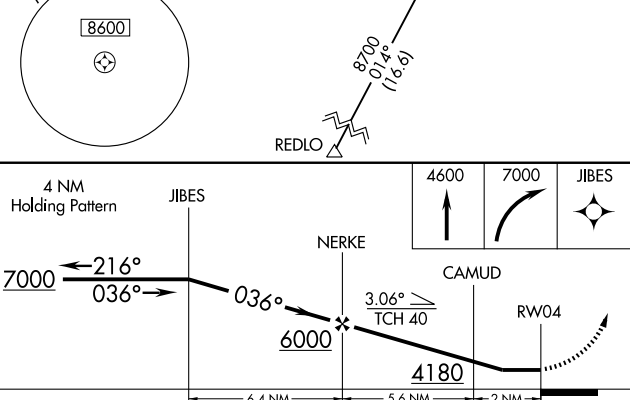
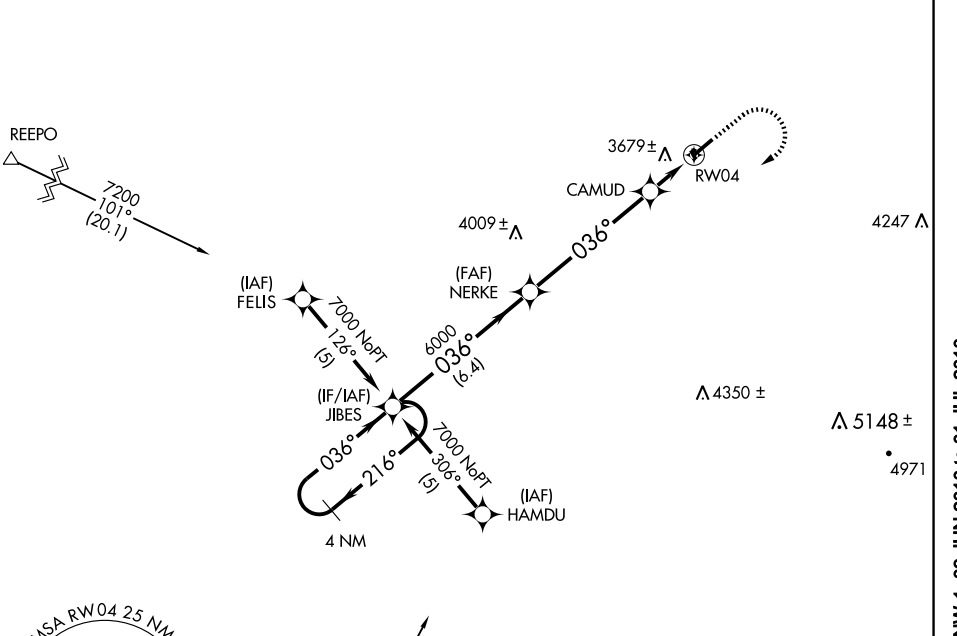
NA

Use Billings altimeter setting.

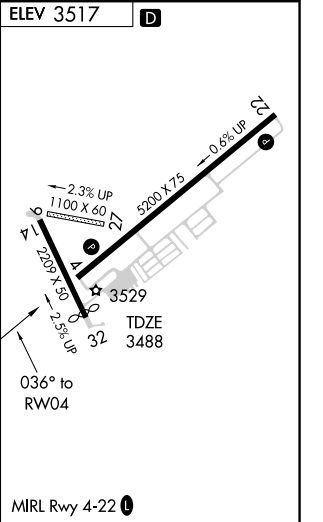
MISSED APPROACH: Climb to 4600 then climbing right turn to 7000 direct JIBES WP and hold.

BILLINGS APP CON
119.2 120.5 284.6

UNICOM
123.05 (CTAF)



CATEGORY	A	B	C	D
LNAV	4120-1 632 (700-1)		4120-1¾ 632 (700-1¾)	4120-2 632 (700-2)
CIRCLING	4220-1 703 (800-1)		4220-2 703 (800-2)	4340-2¾ 823 (900-2¾)



NW-1, 03 JUN 2010 to 01 JUL 2010

▼

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

▲ NA

Use Billings altimeter setting.

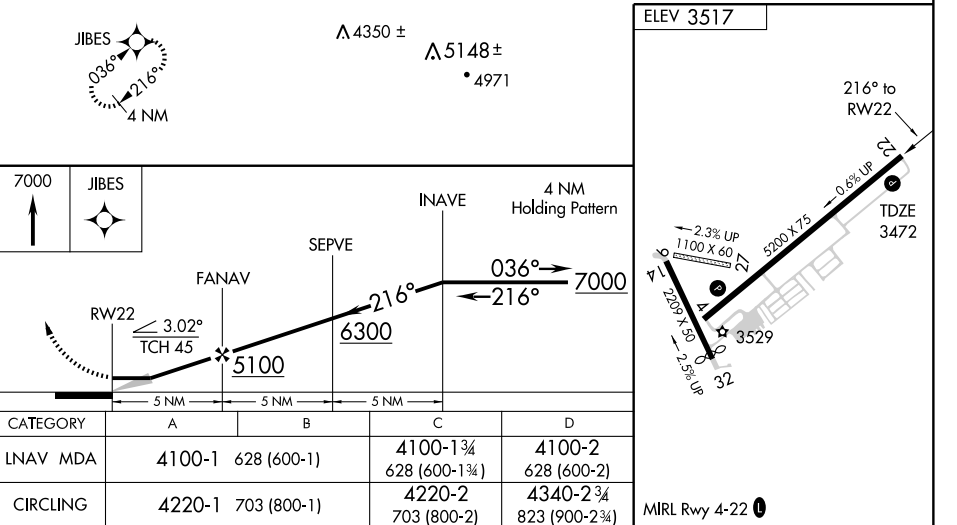
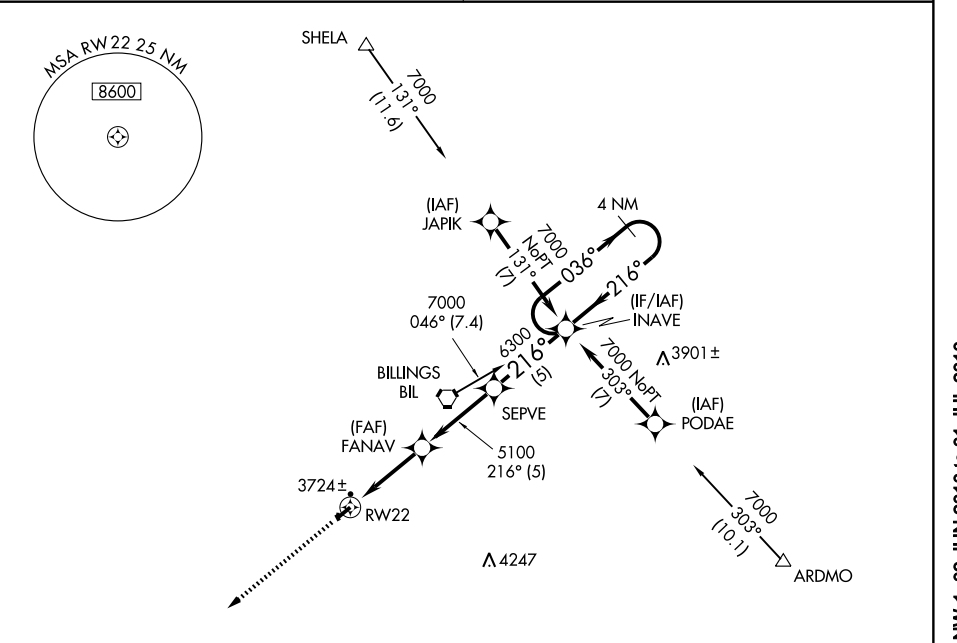
MISSED APPROACH: Climb to 7000 direct JIBES WP and hold.

BILLINGS APP CON

119.2 120.5 284.6

UNICOM

123.05 (CTAF) 0

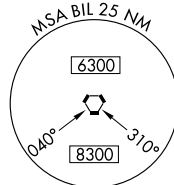
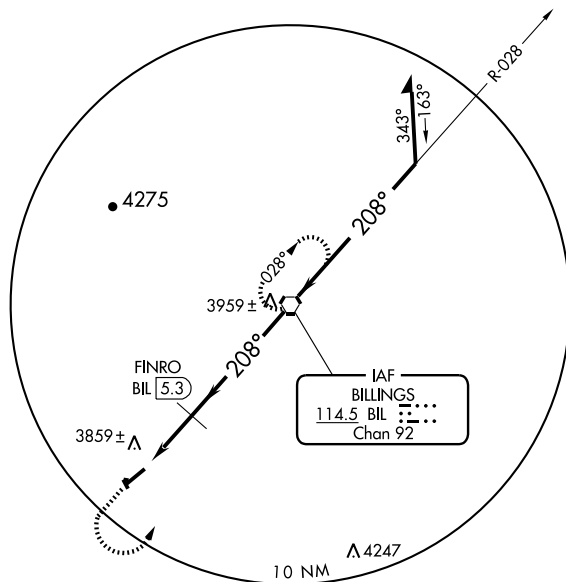


NW-1. 03 JUN 2010 to 01 JUL 2010

VOR RWY 22
LAUREL MUNI (6S8)

MISSED APPROACH: Climb to 4700 then climbing left turn to 6300 direct BIL VORTAC and hold.

UNICOM
123.05 (CTAF) **L**



ELEV 3517

208° 7.8 NM
from FAF

TDZE
3472

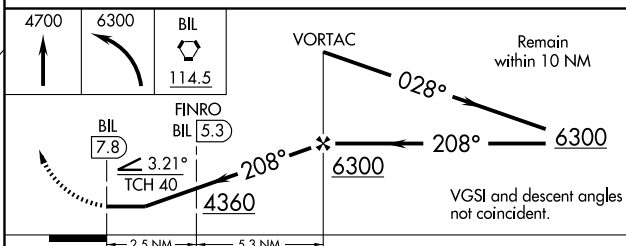
1100 X 60
229° X 50°
2.3% UP

5200 X 75
208° X 7.8 NM
0.6% UP

3529

MRL Rwy 4-22

	FAF to MAP 7.8 NM					
Knots	60	90	120	150	180	
Min:Sec	7:48	5:12	3:54	3:07	2:36	



CATEGORY	A	B	C	D
S-22	4360-1 1/4	888 (900-1 1/4)	4360-2 3/4 888 (900-2 3/4)	4360-3 888 (900-3)
CIRCLING	4360-1 1/4	843 (900-1 1/4)	4360-2 3/4 843 (900-2 3/4)	4360-3 843 (900-3)
FINRO FIX MINIMUMS				
S-22	4160-1	688 (700-1)	4160-2 688 (700-2)	4160-2 1/4 688 (700-2 1/4)
CIRCLING	4220-1	703 (800-1)	4220-2 703 (800-2)	4340-2 3/4 823 (900-2 3/4)

WAAS CH 86700 W07A	APP CRS 075°	Rwy Idg 6100 TDZE 4129 Apt Elev 4170
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RNAV (GPS) RWY 7

LEWISTOWN MUNI (LWT)

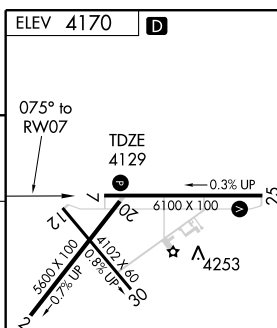
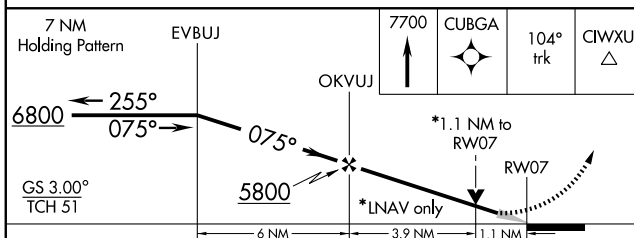
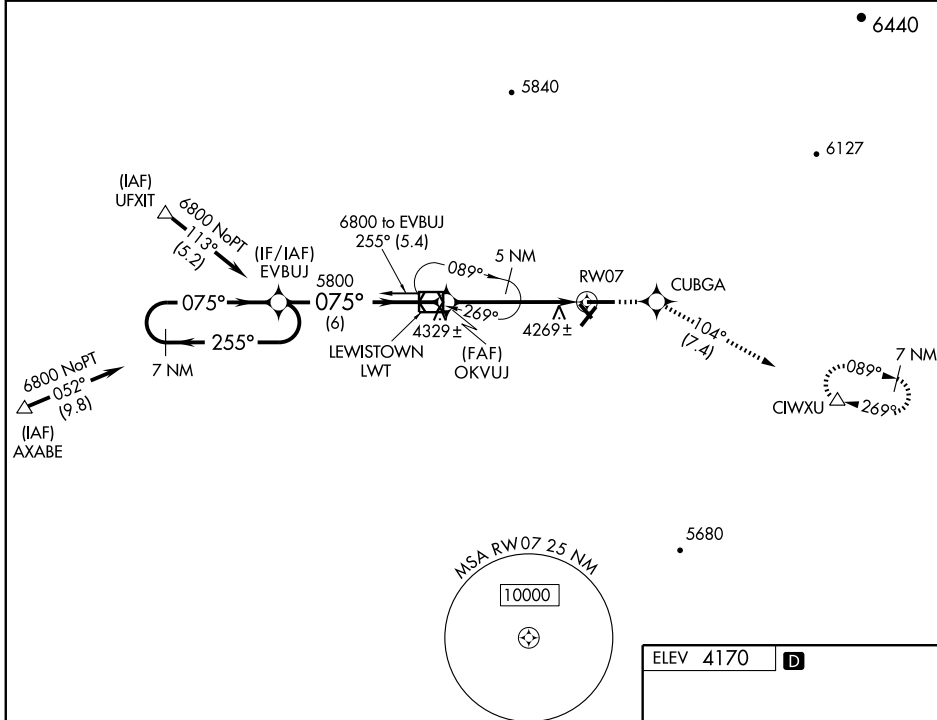
T DME/DME RNP -0.3 NA.
A If local altimeter setting not received, procedure NA.
Baro-VNAV NA below -23°C (-9°F)

MISSED APPROACH: Climb to 7700 direct CUBGA and via 104° track to CIWXU and hold, continue climb-in-hold to 7700.

ASOS
118,375

GREAT FALLS RADIO
122.2

UNICOM
123.0 (CTAF) **L**



CATEGORY	A	B	C	D
LPV DA	4379-3 $\frac{1}{4}$	250 (300-3 $\frac{1}{4}$)		
LNAV/ VNAV DA	4636-1 $\frac{3}{4}$	507 (500-1 $\frac{3}{4}$)		
LNAV MDA	4520-1	391 (400-1)		4520-1 $\frac{1}{4}$ 391 (400-1 $\frac{1}{4}$)
CIRCLING	4680-1 $\frac{3}{4}$	510 (600-1 $\frac{3}{4}$)	4780-1 $\frac{3}{4}$ 610 (700-1 $\frac{3}{4}$)	4860-2 $\frac{1}{4}$ 690 (700-2 $\frac{1}{4}$)

REIL Rwys 7 and 25 **L**
MIRL Rwys 2-20, 7-25 and 12-30 **L**

VOR/DME LWT 112.0 Chan 57	APP CRS 075°	Rwy Idg 6100 TDZE 4126 Apt Elev 4167
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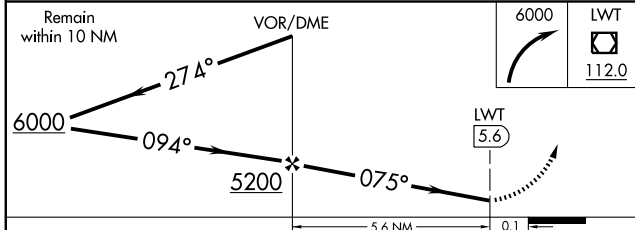
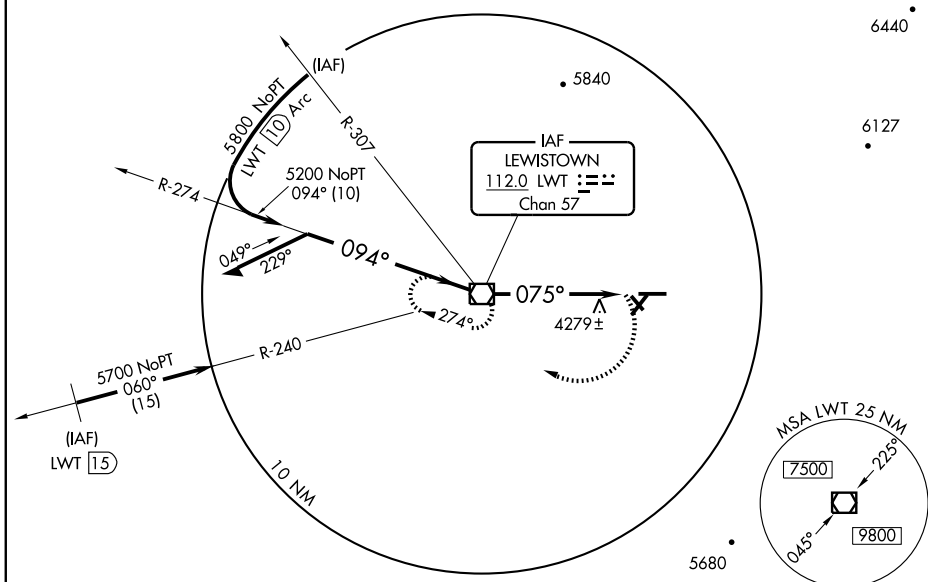
VOR RWY 7
LEWISTOWN MUNI (LWT)

T	If local altimeter setting not received,
A	procedure not authorized.

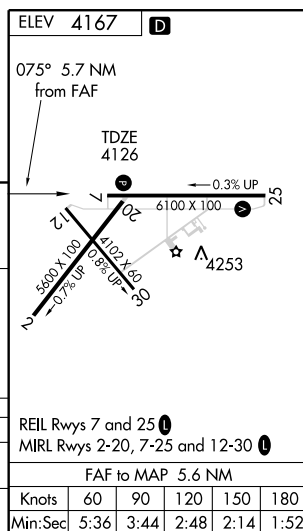
MISSED APPROACH: Climbing right turn to 6000 direct LWT VOR/DME and hold.

ASOS
118,375

GREAT FALLS RADIO
122.2

UNICOM
123.0 (CTAF) **L**

CATEGORY	A	B	C	D
S-7	4600-1	474 (500-1)	4600-1½ 474 (500-1½)	4600-1½ 474 (500-1½)
CIRCLING	4660-1	493 (500-1)	4660-1½ 493 (500-1½)	4880-2 713 (800-2½)



EYSE ONE DEPARTURE (RNAV) (OBSTACLE)

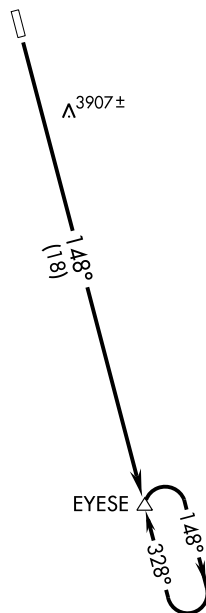
LIBBY, MONTANA

SEATTLE CENTER

123.95 282.3

AWOS-A

118.575



NOTE: 1. GPS required.

2. RNAV 1

TAKE-OFF MINIMUMS: 1400-2 or standard with a minimum climb of 380' per NM to 9600'.
 3907' terrain 23697' from runway threshold, 2491' left of centerline.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 15: Climb via 148° course to 9600' to EYSE, then continue climb to 12000' within the EYSE holding pattern.

▼

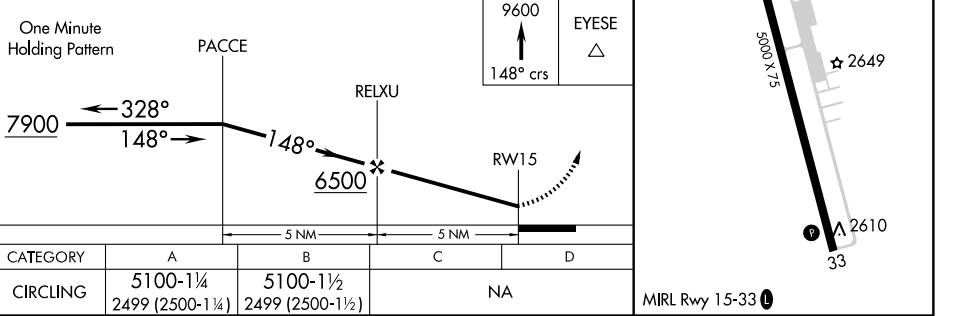
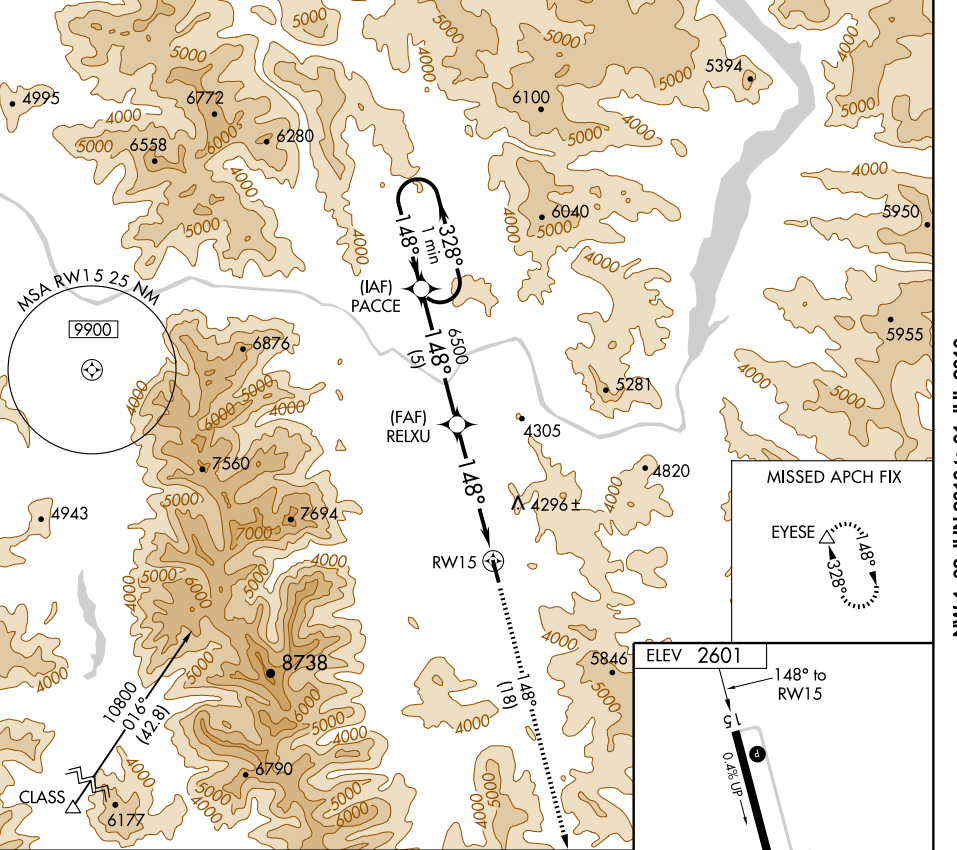
NA

Obtain local altimeter setting on CTAF; when not received procedure NA.

Circling NA east of Rwys 15-33 at night.

MISSED APPROACH: Climb to 9600 via 148° course to EYEE WP and hold.

AWOS-A 118.575	SEATTLE CENTER 123.95 282.3	UNICOM 122.8 (CTAF) 0
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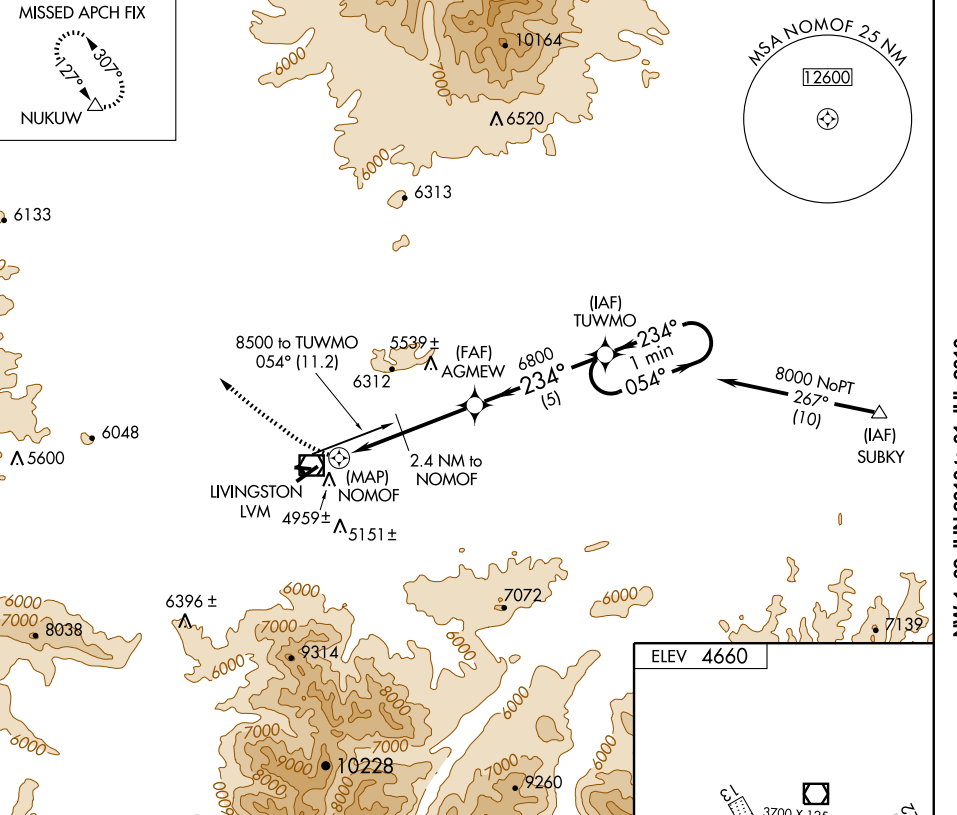
NW-1, 03 JUN 2010 to 01 JUL 2010

▼

▲ NA

MISSED APPROACH: Climbing right turn to 10000 via 305° course to NUKUW WP and hold.

ASOS 135.275	GREAT FALLS RADIO 122.2	UNICOM 123.0 (CTAF) 0
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10000
305°

NUKUW
△

AGMEW

2.4 NM to NOMOF

NOMOF

5800

6800

234°

054°

8000

234°

0.8

2.4

2.8 NM

5 NM

TUWMO

One Minute Holding Pattern

CATEGORY	A	B	C	D
S-22	5080-1	431 (500-1)	5080-1½ 431 (500-1½)	5080-1½ 431 (500-1½)
CIRCLING	5360-1 700 (700-1)	5380-1 720 (800-1)	5380-2 720 (800-2)	5580-3 920 (1000-3)

3700 X 125

22

22/15 X 20

31

5701 X 75

4

7

TDZE
4649

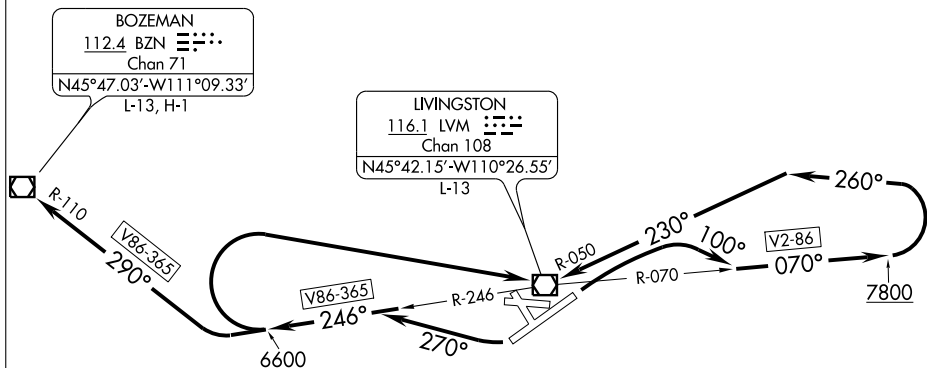
REIL Rwy 22

MIRL Rwy 4-22 0

NW-1. 03 JUN 2010 to 01 JUL 2010

LIVINGSTON ONE DEPARTURE (OBSTACLE)

GREAT FALLS RADIO
122.2
ASOS 135.275



TAKE-OFF MINIMUMS

Rwys 8, 13, 26, 31: NA-Environmental.

Rwy 4: Standard.

Rwy 22: Standard with minimum climb of 300' per NM to 6800
or 2700-3 for climb in visual conditions.

TAKE-OFF OBSTACLE NOTE

Rwy 22: Multiple trees beginning 400' from DER, 256' right of centerline, up to 100' AGL/4719' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 4: Climbing right turn heading 100° and LVM VOR/DME R-070 outbound; aircraft departing eastbound, climb via LVM R-070/V2-86 enroute. All others continue climb on LVM R-070 to 7800, then climbing left turn via heading 260° and LVM R-050 to cross LVM VOR/DME at or above 9000, then climb enroute.

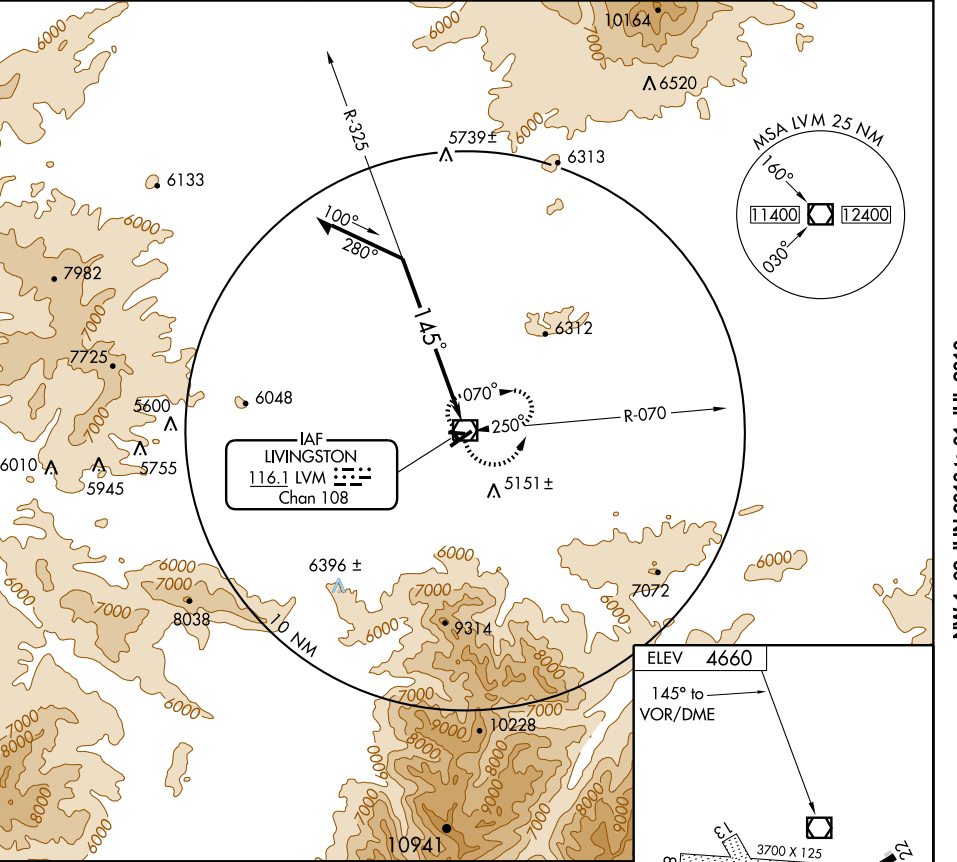
TAKE-OFF RUNWAY 22: Climbing right turn heading 270° and LVM VOR/DME R-246 outbound; aircraft departing eastbound, continue climb via LVM R-246 outbound to 6600, then climbing right turn direct LVM VOR/DME, then climb on LVM R-070/V2-86 enroute. All other aircraft continue climb via LVM VOR/DME R-246 and BZN VOR/DME R-110 to BZN. For climb in visual conditions, cross LVM VOR/DME at or above 9000 before proceeding via filed airway route.

▼

▲

MISSED APPROACH: Climbing left turn to 7700 via LVM R-070, then climbing left turn to 9500 direct LVM VOR/DME and hold.

ASOS 135.275	GREAT FALLS RADIO 122.2	UNICOM 123.0 (CTAF) 0
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Remain within 10 NM

8300

325°

145°

* VOR/DME

7700

LVM R-070

9500

LVM

116.1

* Maintain 10600 or above until established outbound for procedure turn.



CATEGORY	A	B	C	D
CIRCLING	6800-1¼ 2140 (2200-1¼)	6800-1½ 2140 (2200-1½)	6800-3	2140 (2200-3)

REIL Rwy 22

MIRL Rwy 4-22 0

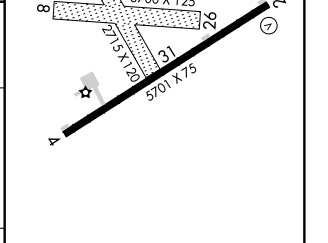
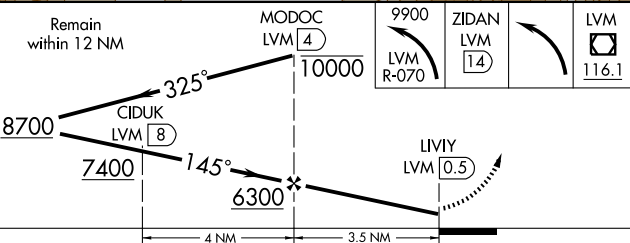
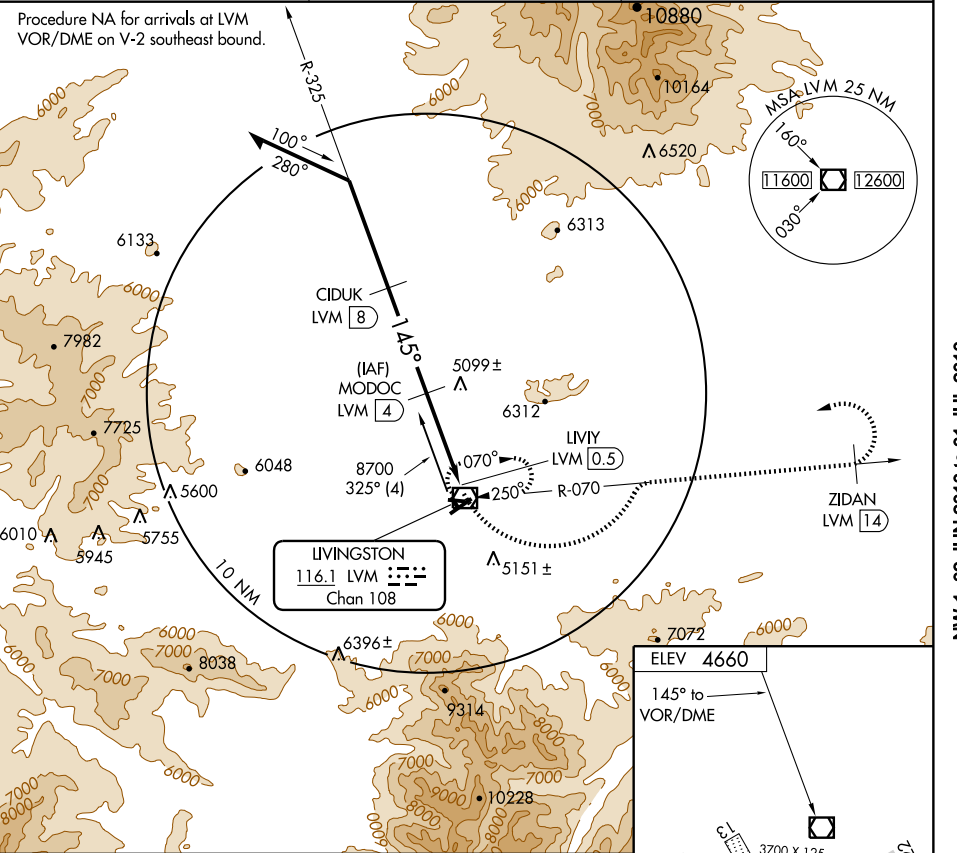
NW-1. 03 JUN 2010 to 01 JUL 2010

VOR/DME LVM 116.1 Chan 108	APP CRS 145°	Rwy Idg TDZE Apt Elev 4660	N/A N/A 4660
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MISSED APPROACH: Climbing left turn to 9900 via LVM VOR/DME R-070 to ZIDAN/14 DME and left turn direct LVM VOR/DME and hold.

ASOS 135.275	GREAT FALLS RADIO 122.2	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
CIRCLING	5540-1 880 (900-1)	5540-1¼ 880 (900-1¼)	5540-2½ 880 (900-2½)	5580-3 920 (1000-3)

REIL Rwy 22
MIRL Rwy 4-22 0

NW-1, 03 JUN 2010 to 01 JUL 2010

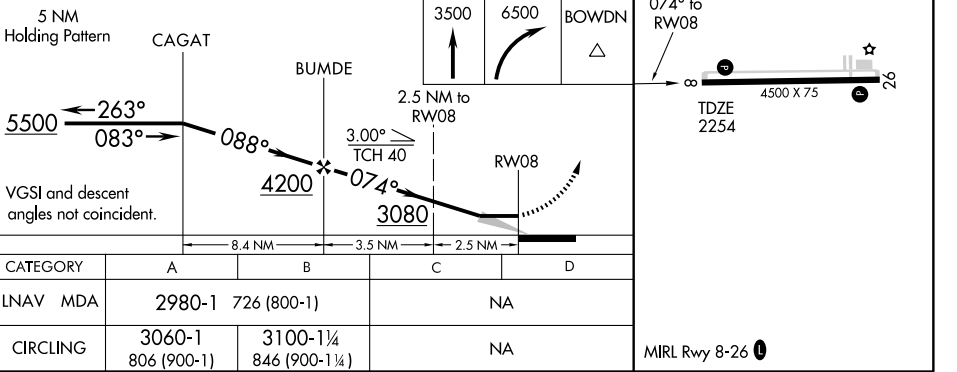
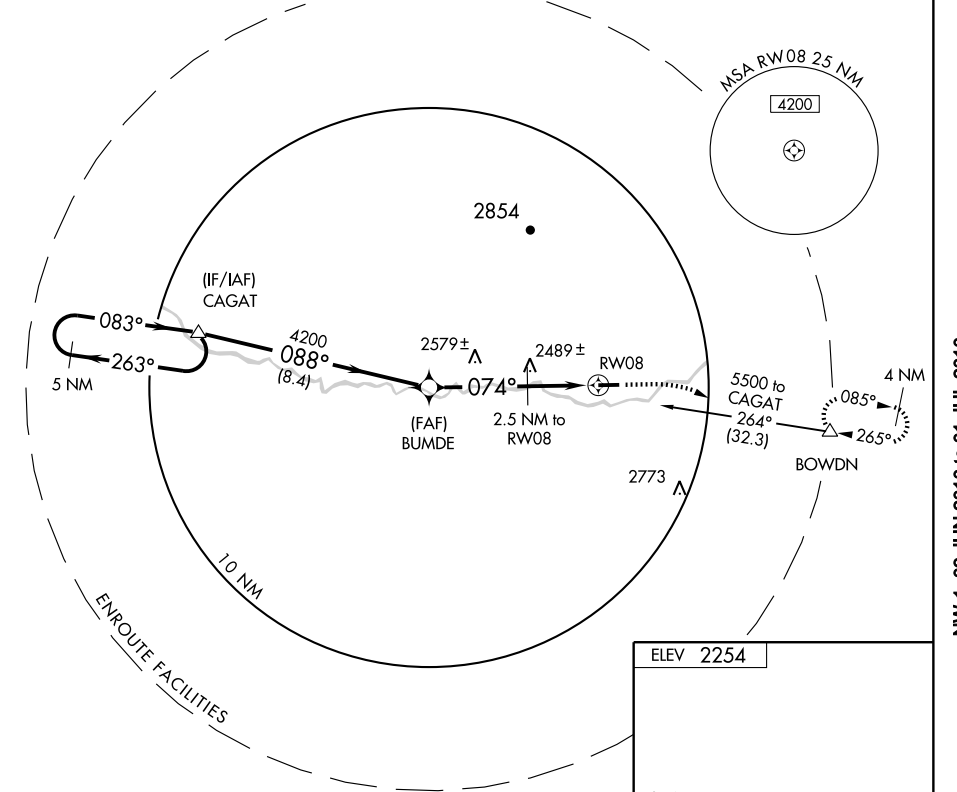
NA

Use Glasgow altimeter setting; when not received procedure not authorized.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 3500 then climbing right turn to 6500 direct BOWDN WP and hold.

SALT LAKE CITY CENTER
126.85 305.2

UNICOM
122.8 (CTAF)



APP CRS	Rwy Idg	4500
254°	TDZE	2254
	Apt Elev	2254

RNAV (GPS) RWY 26

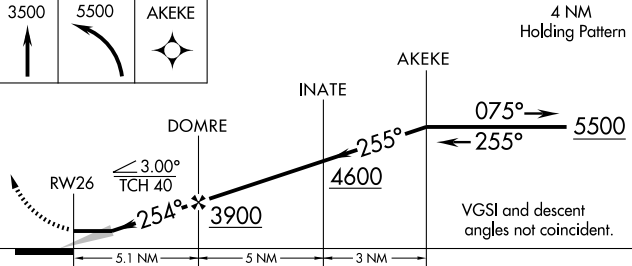
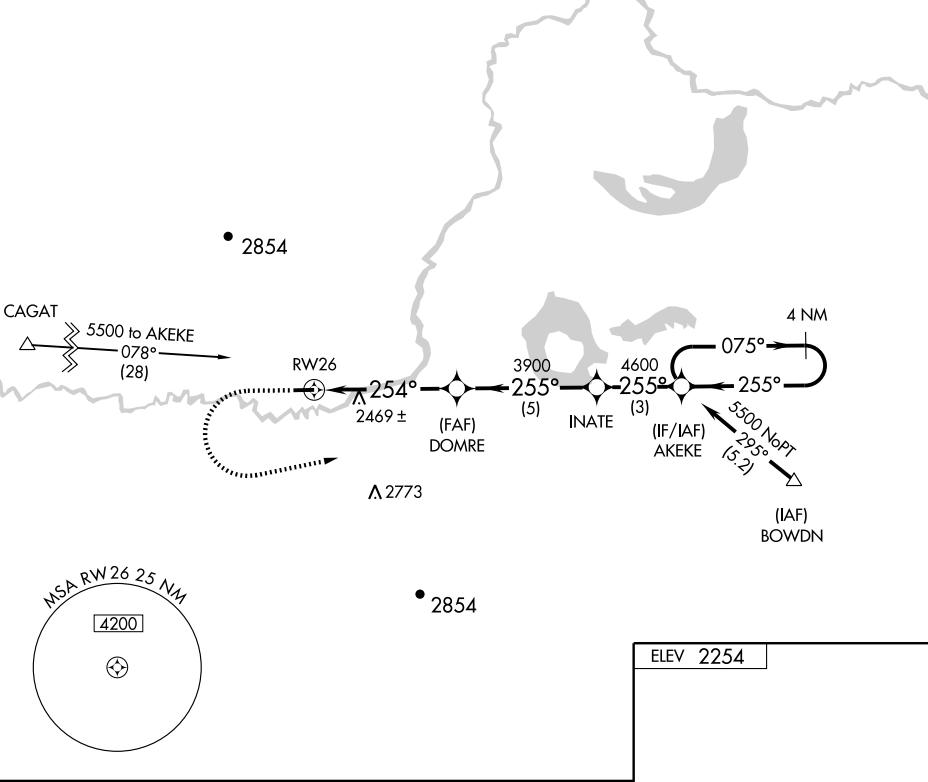
MALTA (M75)

NA Use Glasgow altimeter setting; when not received procedure not authorized.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

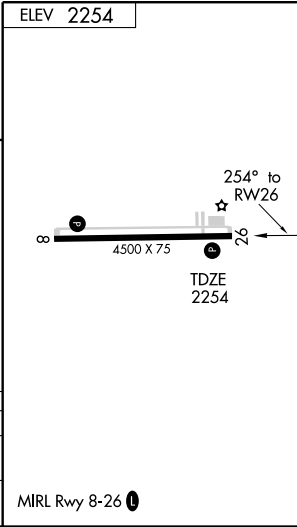
MISSED APPROACH: Climb to 3500 then climbing left turn to 5500 direct AKEKE WP and hold.

SALT LAKE CITY CENTER
126.85 305.2

UNICOM
122.8 (CTAF)



CATEGORY	A	B	C	D
LNAV MDA	2960-1	706 (800-1)	NA	NA
CIRCLING	3060-1 806 (900-1)	3100-1¼ 846 (900-1¼)	NA	NA



NDB RWY 4

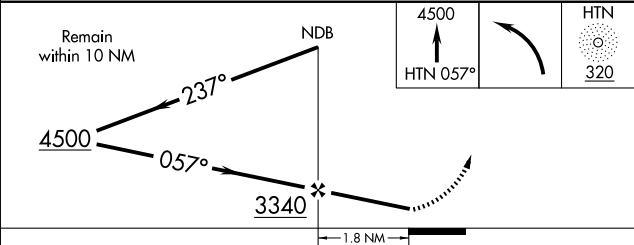
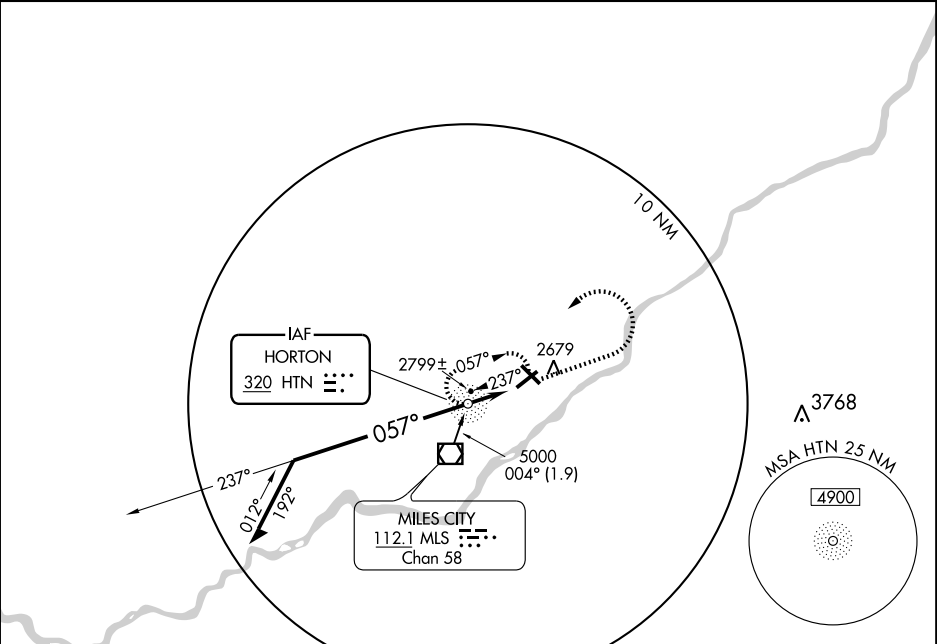
MILES CITY/FRANK WILEY FIELD (MLS)

NDB HTN	APP CRS	Rwy Idg	5680
320	057°	TDZE	2629
		Apt Elev	2630

Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4500 via 057° bearing from HTN NDB then left turn direct HTN NDB and hold.

ASOS 135.575	GREAT FALLS RADIO 122.2 255.4	UNICOM 123.0 (CTAF) 1
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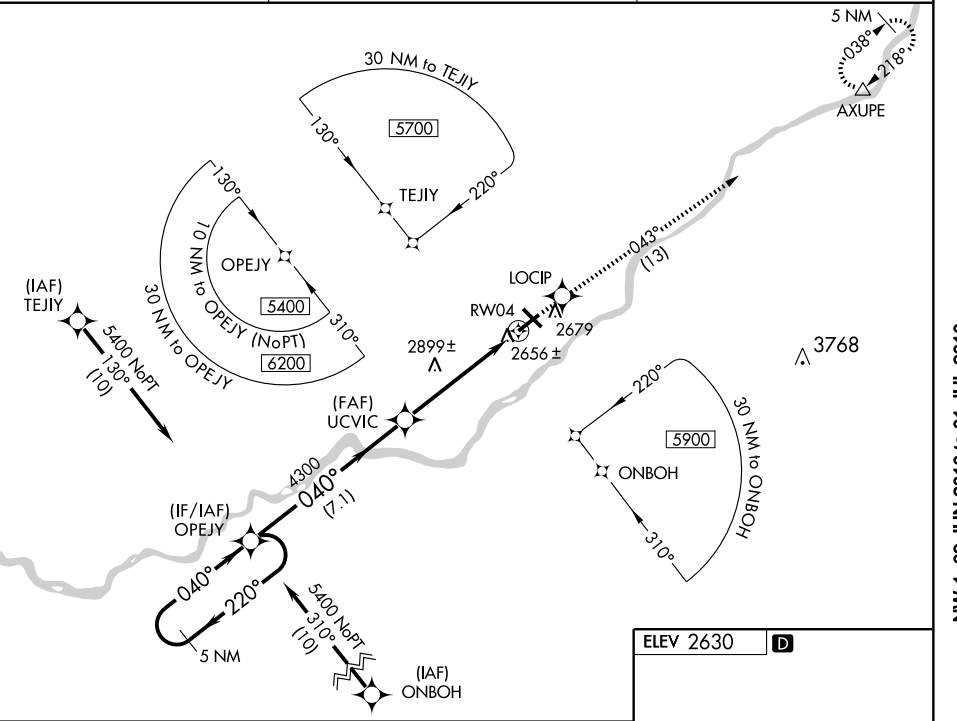


ELEV 2630	D
<p>The diagram shows a 1.8 NM distance from the FAF to the map. It includes a 2629 TDZE, a 2630 ELEV, and a 2684 altitude marker. A 057° bearing is shown from the FAF. A 3624 x 100 and a 5680 x 100 distance are indicated. A 30° bearing is shown from the 2684 altitude marker. A 2653 altitude marker is also shown.</p>	
REIL Rws 4, 12, 22 and 30 1	
MIRL Rws 4-22 and 12-30 1	
FAF to MAP 1.8 NM	
Knots	60 90 120 150 180
Min:Sec	1:48 1:12 0:54 0:43 0:36

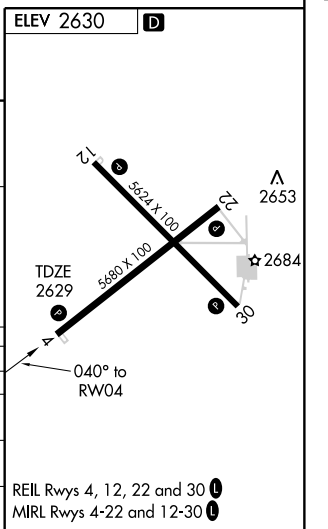
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -20°C (-4°F) or above 32°C (111°F).
Visibility reduction by helicopters NA.
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 6000 direct LOCIP and via 043° track to AXUPE and hold.

ASOS 135.575	GREAT FALLS RADIO 122.2 255.4	UNICOM 123.0 (CTAF) 0
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5 NM Holding Pattern		OPEJY	UCVIC	LOCIP	AXUPE
5400		220°	040°	043° track	△
GS 3.00°					
TCH 50					
		7.1 NM	5 NM		
CATEGORY	A	B	C	D	
LPV DA		2879-1	250 (300-1)		
LNAV/VNAV DA		2926-1	297 (300-1)		
LNAV MDA	3160-1	531 (600-1)	3160-1½ 531 (600-1½)	3160-1¾ 531 (600-1¾)	
CIRCLING	3160-1	530 (600-1)	3160-1½ 530 (600-1½)	3180-2 550 (600-2)	



NW-1, 03 JUN 2010 to 01 JUL 2010

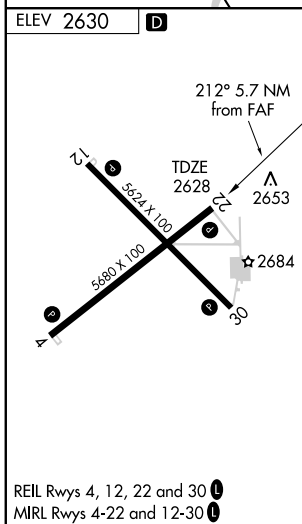
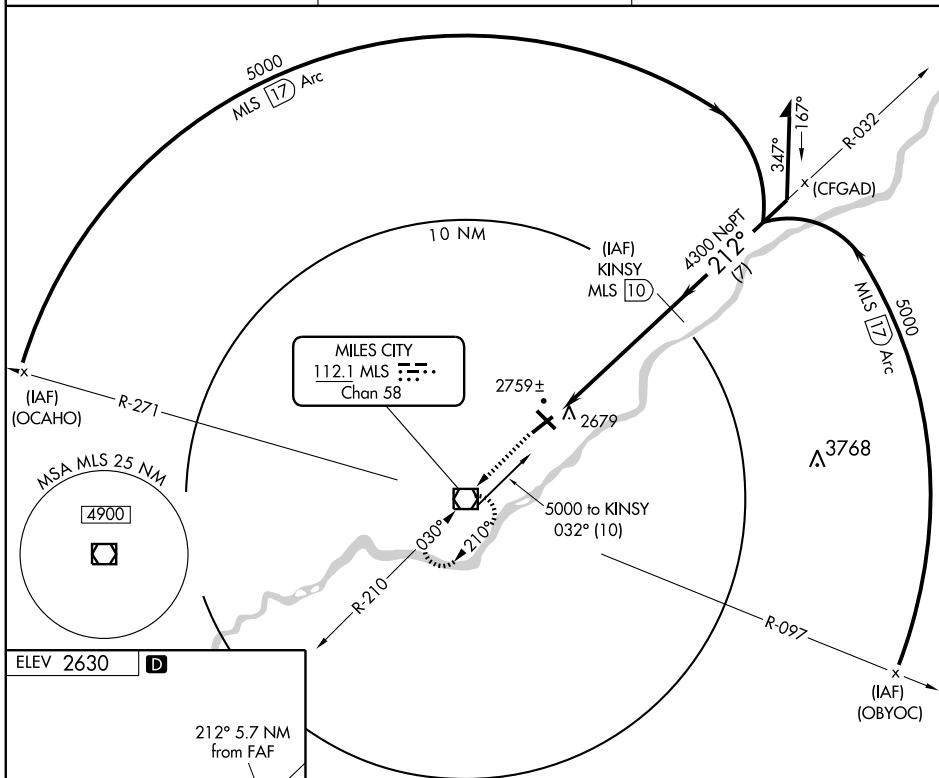
VOR/DME MLS 112.1 Chan 58	APP CRS 212°	Rwy Idg TDZE Apt Elev	5680 2628 2630
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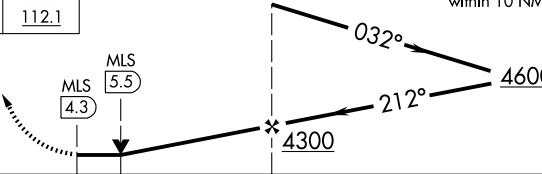
VOR/DME or GPS RWY 22

MILES CITY/FRANK WILEY FIELD (MLS)

MISSED APPROACH: Climb direct to MLS VOR/DME.
Continue climb to 4700 in MLS VOR/DME holding pattern.

ASOS 135.575	GREAT FALLS RADIO 122.2 255.4	UNICOM 123.0 (CTAF) 1
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4700 ↑	MLS  112.1	KINSY MLS 10			Remain within 10 NM
					
CATEGORY	A	B	C	D	
S-22	3020-1 392 (400-1)			3020-1½ 392 (400-1½)	
CIRCLING	3060-1 430 (500-1)	3080-1 450 (500-1)	3100-1½ 470 (500-1½)	3180-2 550 (600-2)	

VOR RWY 4

MILES CITY/FRANK WILEY FIELD (MLS)

VOR/DME MLS	APP CRS	Rwy Idg	5680
112.1	030°	TDZE	2629
Chan 58		Apt Elev	2630

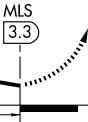
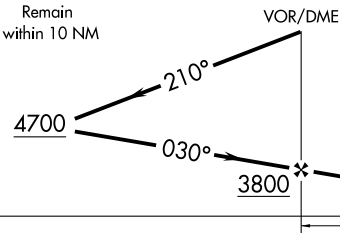
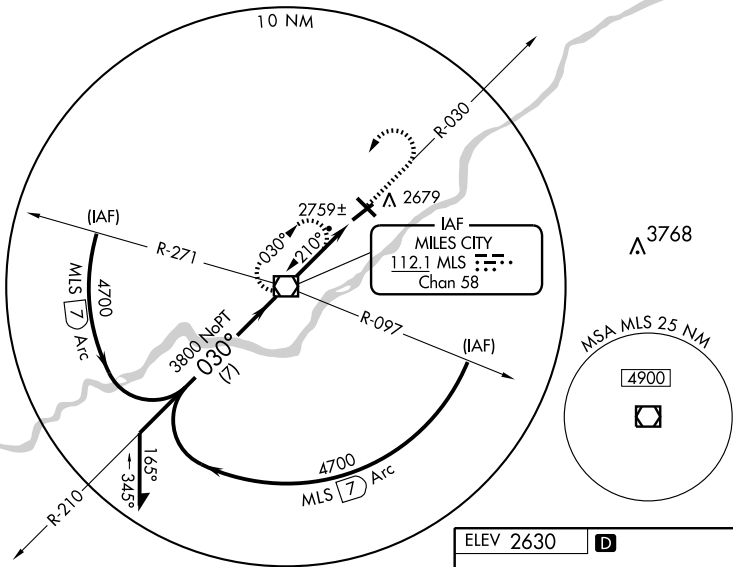
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4700 via MLS R-030 then left turn direct MLS VOR/DME and hold.

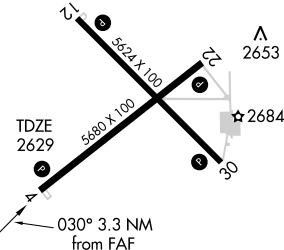
ASOS
135.575

GREAT FALLS RADIO
122.2 255.4

UNICOM
123.0 (CTAF) 0



ELEV 2630 D



REIL Rwy 4, 12, 22 and 30 0
MIRL Rwy 4-22 and 12-30 0

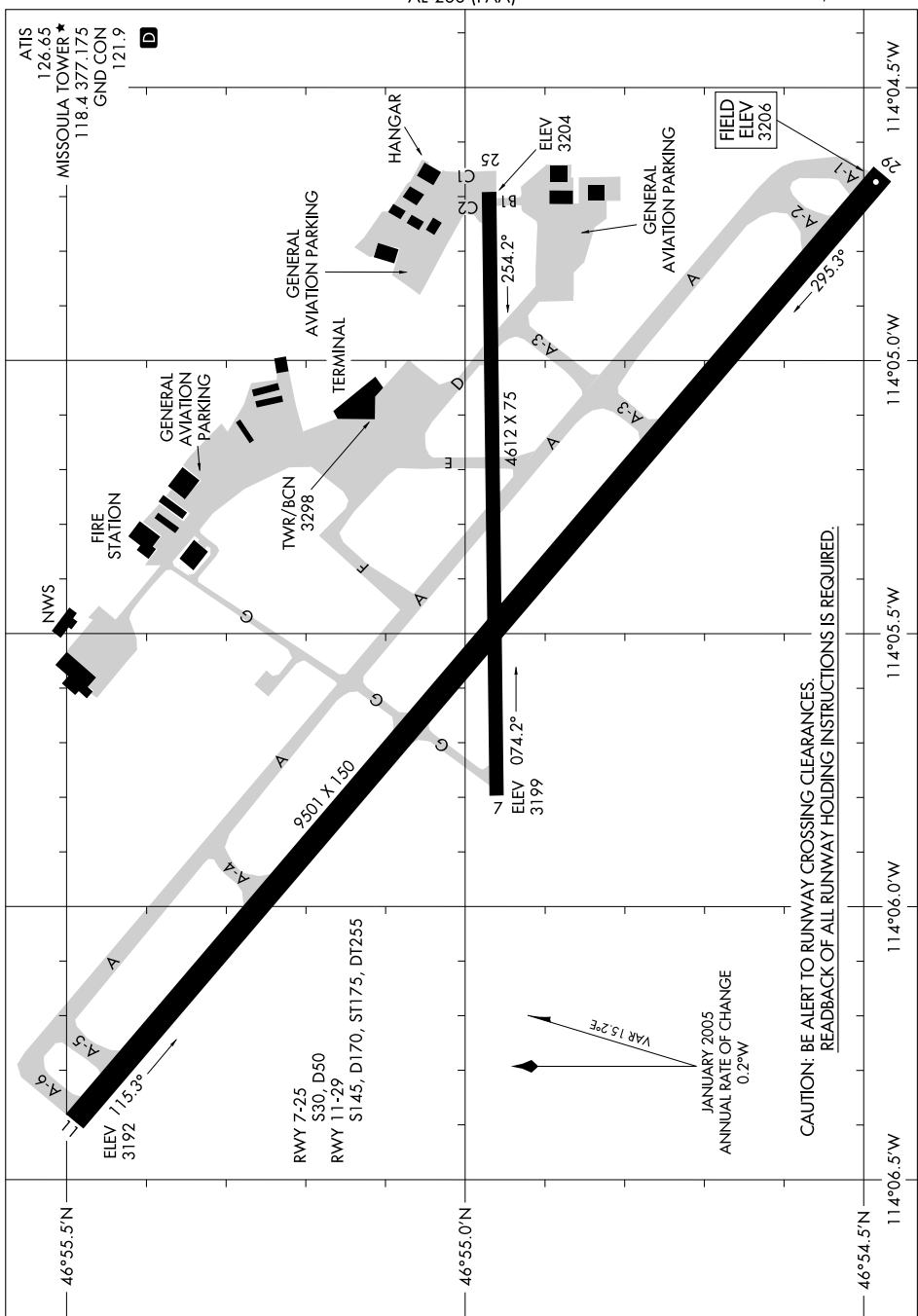
FAF to MAP 3.3 NM

Knots	60	90	120	150	180
Min:Sec	3:18	2:12	1:39	1:19	1:06

AIRPORT DIAGRAM

AL-266 (FAA)

MISSOULA INTL (MSO)
MISSOULA, MONTANA



NW-1. 03 JUN 2010 to 01 JUL 2010

GPS-D

MISSOULA INTL (MSO)

APP CRS	Rwy Idg	N/A
335°	TDZE	N/A
	Apt Elev	3205

MISSED APPROACH: Climb to 5300 then climbing left turn to 9600 direct LIBRE WP and hold.

TANA

ATIS
126.65

SPOKANE APP CON ★
124.9 298.95

MISSOULA TOWER ★
118.4 (CTAF) **L** 377.175

GND CON
121.9

UNICOM
122.95

MISSED APCH FIX

A topographic map of the Rival area. A fault line, indicated by a line with small perpendicular ticks, runs from the upper left towards the lower right. Elevation contours are shown as wavy lines, with labels for 12000, 10700 (2), and 7215 feet. A peak is marked with a dot and labeled 6157. The word 'RIVAL' is written in the upper left corner.

ELEV 3205

D

5300	9600	LIBR
↑	↖	△

WOJHO

VISVE

000

Procedure

Turn NA

ALHOB

6800

← 6 NM	A
5120-1¼	
1915 (2000-1¼)	

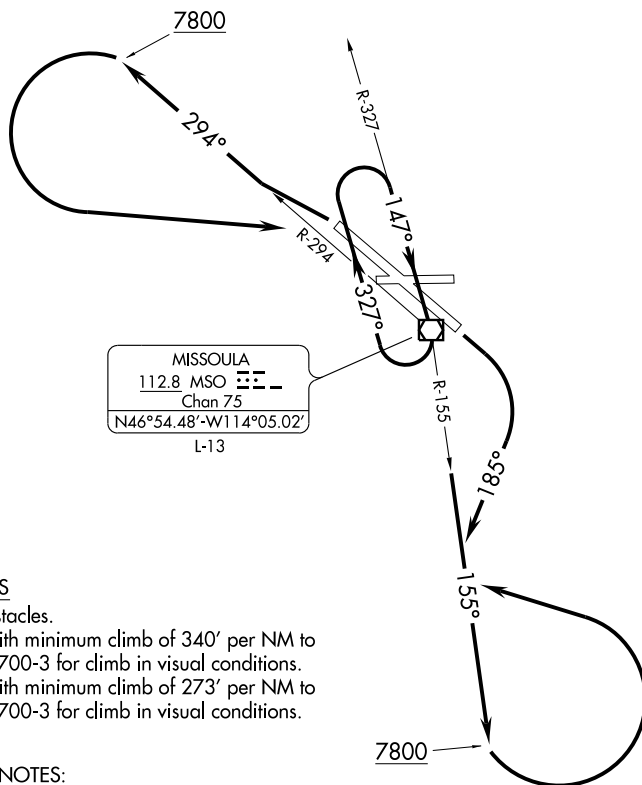
	B
	5120-1½ 1915 (2000-1½)

5120-3 1915 (2000-3)

REIL Rwy 29
MIRL Rwy 7-25
HIRL Rwy 11-29 **L**

335° to
ALHOB

ATIS 126.65
GND CON
121.9
MISSOULA TOWER ★
118.4 (CTAF) 377.175
SPOKANE DEP CON
124.9 298.95
SALT LAKE CITY CENTER
133.4 285.4

**TAKE-OFF MINIMUMS**

RWY 7, 25: NA- Obstacles.

RWY 11: Standard with minimum climb of 340' per NM to 7800, or 2700-3 for climb in visual conditions.

RWY 29: Standard with minimum climb of 273' per NM to 7800, or 2700-3 for climb in visual conditions.

TAKE-OFF OBSTACLE NOTES:

RWY 11: Tree 505' from DER, 171' left of centerline, 100' AGL/3300' MSL.

Fence 38' from DER, 487' right of centerline, 21' AGL/3213' MSL

RWY 29: Multiple AAOs beginning 6.5 NM from DER, 1.5 NM left of centerline, up to 200' AGL/4639' MSL.

NOTE: Chart not to scale.

**DEPARTURE ROUTE DESCRIPTION**

TAKE-OFF RUNWAY 11: Climbing right turn heading 185° to intercept MSO R-155, southeast bound to 7800, thence. . . .


or, climb in visual conditions to cross MSO VOR/DME southeast bound at or above 5800, continue climb to 7800 via MSO VOR/DME R-155, thence. . . .


TAKE-OFF RUNWAY 29: Climb via MSO R-294 to 7800, then climbing left turn via MSO R-294 to MSO VOR/DME, climb in MSO VOR/DME holding pattern to MEA/MCA for route of flight or, climb in visual conditions to cross MSO VOR/DME southeast bound at or above 5800, continue climb to 7800 via MSO VOR/DME R-155, thence. . . .

. . . .climbing left turn via MSO VOR/DME R-155 to MSO VOR/DME, climb in MSO VOR/DME holding pattern to MEA/MCA for route of flight.

ILS RWY 11
MISSOULA INTL (MSO)

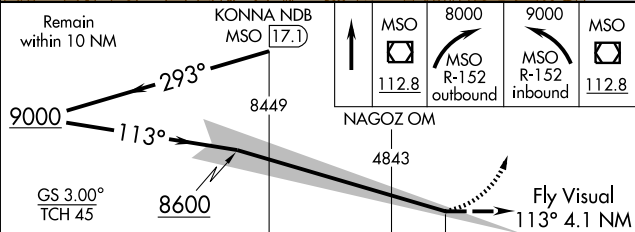
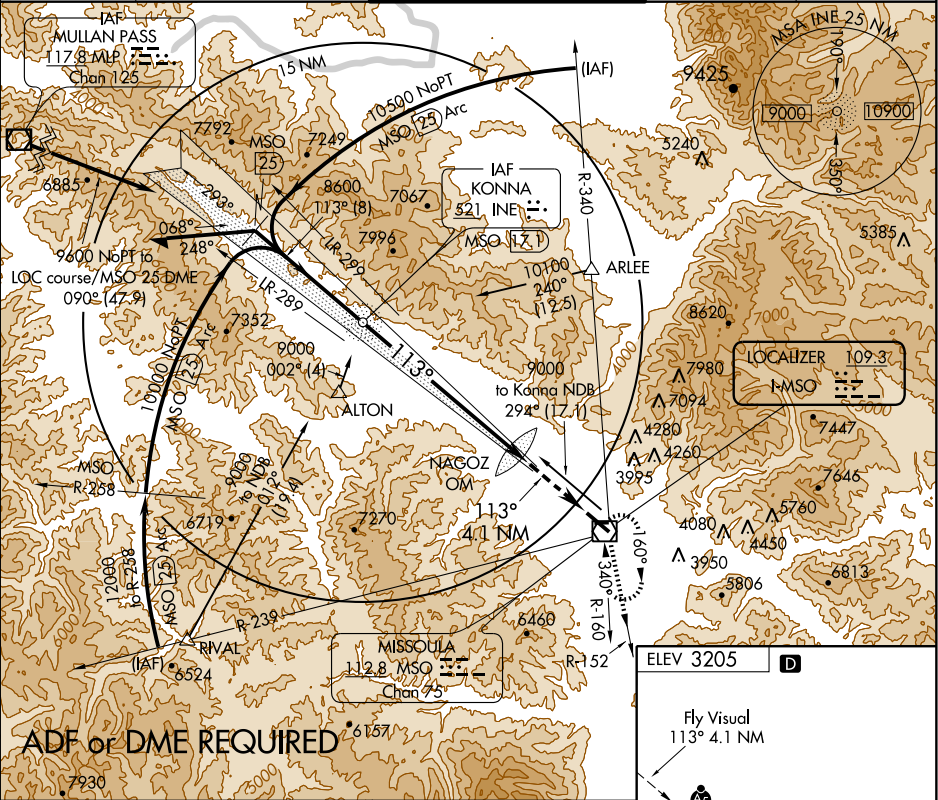
LOC I-MSO	APP CRS	Rwy Idg	9501
109.3	113°	TDZE	3200
		Apt Elev	3205


Inoperative table does not apply.


MALSR

MISSED APPROACH: Climb direct MSO VOR/DME then climbing right turn to 8000 outbound on MSO R-152 then climbing left turn to 9000 inbound on the MSO R-152 to MSO VOR/DME and hold.

ATIS 126.65	SPOKANE APP CON ★ 124.9 298.95	MISSOULA TOWER ★ 118.4 (CTAF) 377.175	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
S-ILS 11	4550-5 1350 (1400-5)			
S-LOC 11	NA			
CIRCLING	NA			

ELEV 3205

Fly Visual 113° 4.1 NM

TWR 3298

4612 X 75

3250

25

29

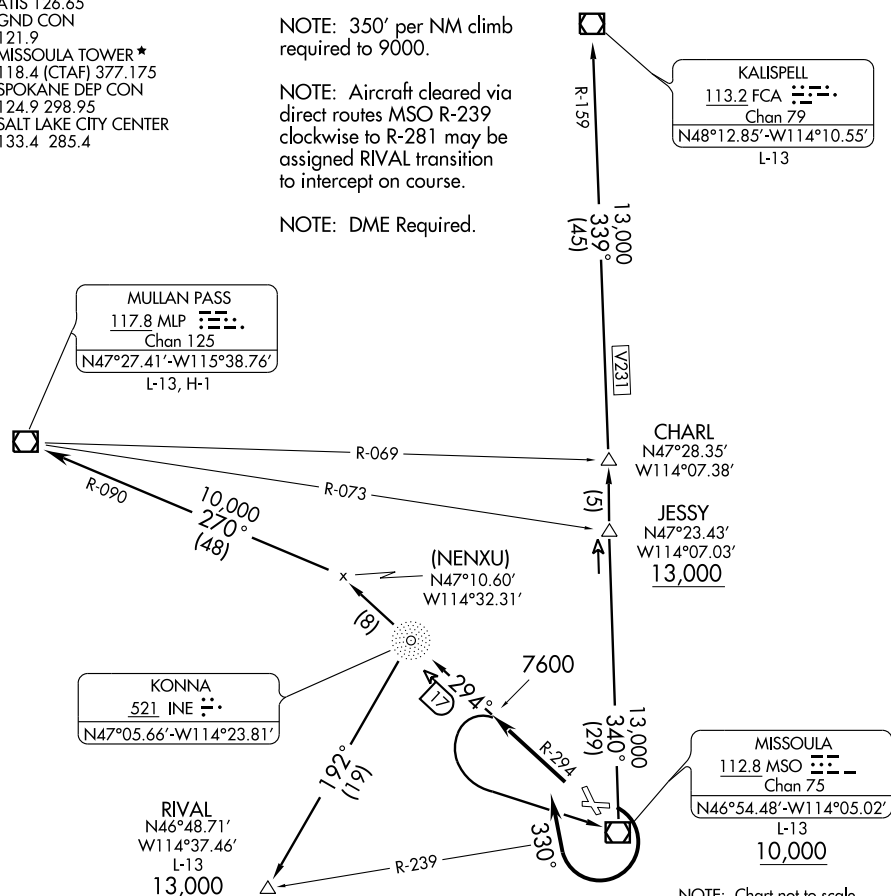
REIL Rwy 29
MIRL Rwy 7-25
HIRL Rwy 11-29

ATIS 126.65
GND CON
121.9
MISSOULA TOWER *
118.4 (CTAF) 377.175
SPOKANE DEP CON
124.9 298.95
SALT LAKE CITY CENTER
133.4 285.4

NOTE: 350' per NM climb
required to 9000.

NOTE: Aircraft cleared via
direct routes MSO R-239
clockwise to R-281 may be
assigned RIVAL transition
to intercept on course.

NOTE: DME Required.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 7 AND 25: Not authorized.

TAKE-OFF RUNWAY 11: Climbing right turn heading 330° to intercept MSO R-294, then climb to 7600' via MSO R-294, then climb via (transition).

TAKE-OFF RUNWAY 29: Intercept MSO R-294 immediately after departure, then climb to 7600' via MSO R-294, then climb via (transition).

KALISPELL TRANSITION (KONNA2.FCA): After leaving 7600', make a climbing left turn direct MSO VOR/DME, then via V231 to FCA VOR/DME.

MISSOULA TRANSITION (KONNA2.MSO): After leaving 7600', make a climbing left turn direct MSO VOR/DME.

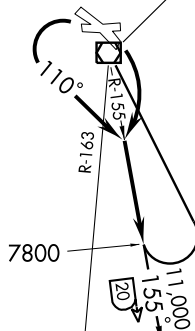
MULLAN PASS TRANSITION (KONNA2.MLP): After reaching 7600', continue on MSO R-294 and MLP R-090 to MLP VOR/DME.

RIVAL TRANSITION (KONNA2.RIVAL): After reaching 7600', continue on MSO R-294 and INE NDB 192° bearing to RIVAL INT.

ATIS 126.65
GND CON
121.9
MISSOULA TOWER*
118.4 (CTAF) 377.175
SPOKANE DEP CON
124.9 298.95
SALT LAKE CITY CENTER
133.4 285.4

MISSOULA
112.8 MSO
Chan 75
N46°54.48'-W114°05.02'

L-13
10,000



VICTO
N46°34.68'
W114°00.98'
11,000

*Approx dist

NOTE: This SID requires a minimum climb of 400' per NM to 11,000'.

NOTE: DME required.

SALMON
113.5 LKT
Chan 82
N45°01.28'-W114°05.05'
L-13, H-1

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 7: Not authorized.

TAKE-OFF RUNWAY 11: Climbing right turn to intercept MSO R-155, thence....

TAKE-OFF RUNWAY 25 OR 29: Climbing left turn heading 110° to intercept MSO R-155, thence....

....climb to 7800' via MSO R-155; thence climb via (transition).

MISSOULA TRANSITION (MZULA1.MSO): After leaving 7800', make a climbing left turn direct to MSO VOR/DME.

SALMON TRANSITION (MZULA1.LKT): After reaching 7800' continue on MSO R-155 until VICTO INT. Then via 190° heading and V231 to LKT VOR/DME.

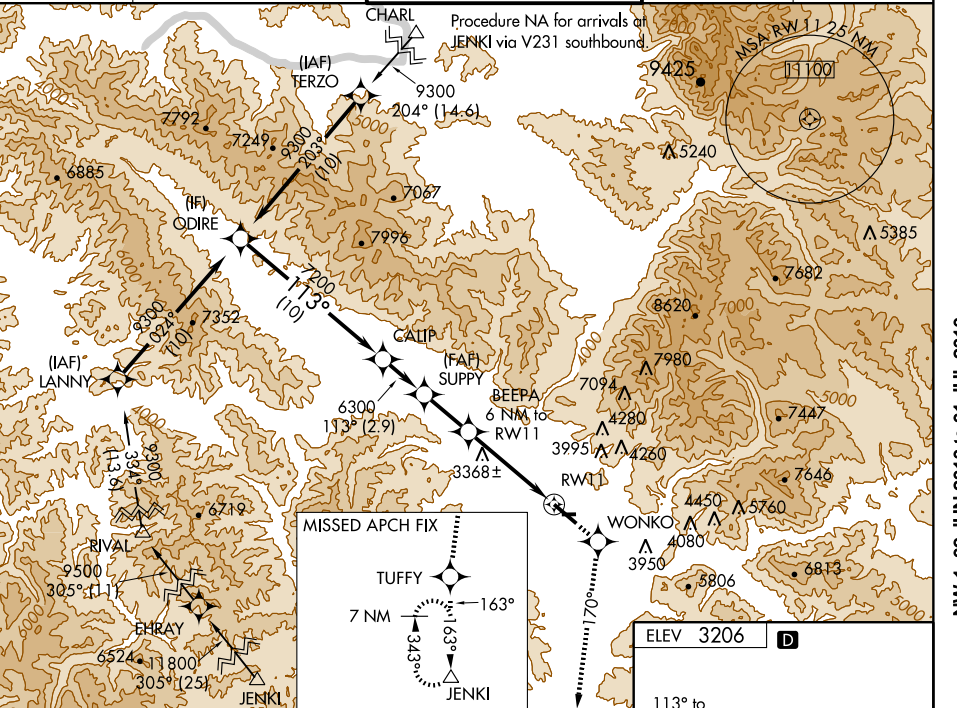
▼ Inoperative table does not apply to LNAV % Cats. A and B. For inoperative MALS, increase LPV visibility all Cats. to 2 1/2 miles. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

Missed approach requires minimum climb of 290 feet per NM to 8300.

MALSRA5

MISSED APPROACH: Climb to 12000 direct WONKO and via track 170° to TUFFY and via track 163° to JENKI and hold.

ATIS 126.65	SPOKANE APP CON ★ 124.9 298.95	MISSOULA TOWER ★ 118.4 (CTAF) 377.175	GND CON 121.9	UNICOM 122.95
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Procedure Turn NA ODIRE

9300

GS 3.08° TCH 55

VGSi and RNAV glidepath not coincident.

12000 WONKO trk 170° TUFFY trk 163° JENKI

113° to RW11

7200

6300

5220*

6300 SUPPLY BEEPA 6 NM to RW11 *3.1 NM to RW11 *LNAV only.

10 NM 2.9 NM 3.1 NM 2.9 NM 3.1 NM

CATEGORY	A	B	C	D
LPV DA#	3896-2 696 (700-2)			
LNAV MDA#	4220-3/4 1020 (1100-3/4)	4220-1 1020 (1100-1)	4220-2 1/2	1020 (1100-2 1/2)
LNAV MDA%	5100-1 1/4 1900 (2000-1 1/4)	5100-1 1/2 1900 (2000-1 1/2)	5100-2 1/2	1900 (2000-2 1/2)
CIRCLING	5100-1 1/4 1894 (1900-1 1/4)	5100-1 1/2 1894 (1900-1 1/2)	5100-3	1894 (1900-3)

ELEV 3206 D

113° to RW11

TDZE 3200

TWR 3298

4612 X 75

9501 X 150

REIL Rwy 29

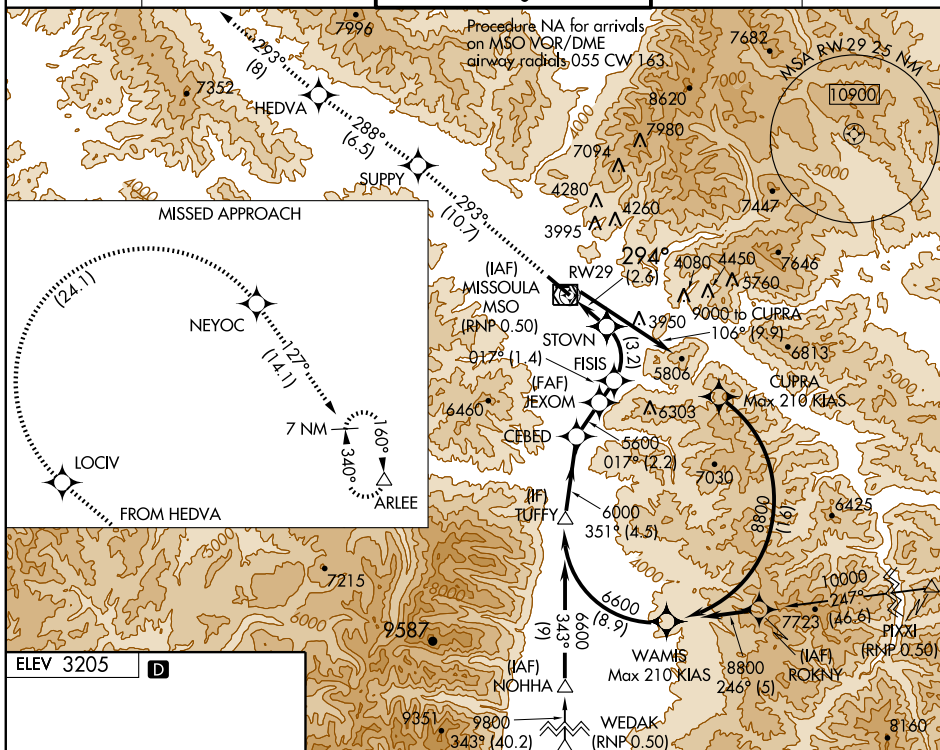
MIRL Rwy 7-25

HIRL Rwy 11-29

RNAV (RNP) RWY 29
MISSOULA INTL (MSO)

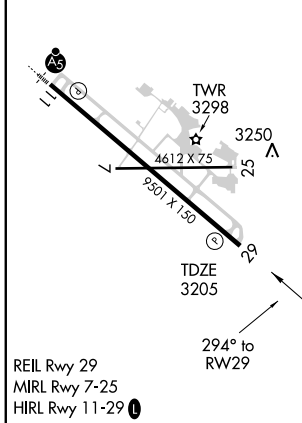
MISSOULA INTL (MSO)

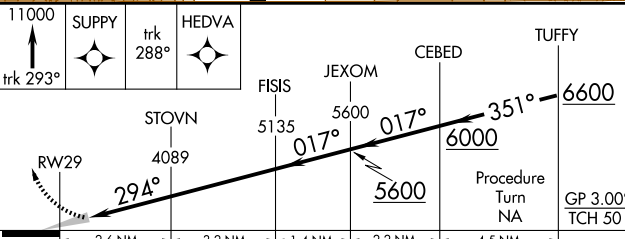
MISSED APPROACH: Climb to 11000 via track 293° to SUPPY, and via track 288° to HEDVA, and via track 293° to LOCIV, and via right turn to NEYOC, and via track 127° to ARLEE and hold.

UNICOM
122.95

ELEV 3205

D



11000 ↑ trk 293°		SUPPLY ✧	trk 288° ✧	HEDVA					
CATEGORY		A		B		C		D	
RNP 0.30 DA*		3523-1 318 (400-1)							
RNP 0.30 DA		3581-1 $\frac{1}{4}$ 376 (400-1 $\frac{1}{4}$)							

**SPECIAL AIRCRAFT AND AIRCREW
AUTHORIZATION REQUIRED**

APP CRS	Rwy Idg	9501
113°	TDZE	3200
	Apt Elev	3206

RNAV (RNP) Z RWY 11

MISSOULA INTL (MSO)

GPS required. Visibility reduction by helicopters NA. For uncompensated Baro-VNAV systems, procedure NA below -21°C (-6°F) or above 43°C (109°F). For inoperative MALSR increase RNP 0.12 visibility all Cats to 1 1/4, RNP 0.30 visibility all Cats to 2 1/2.

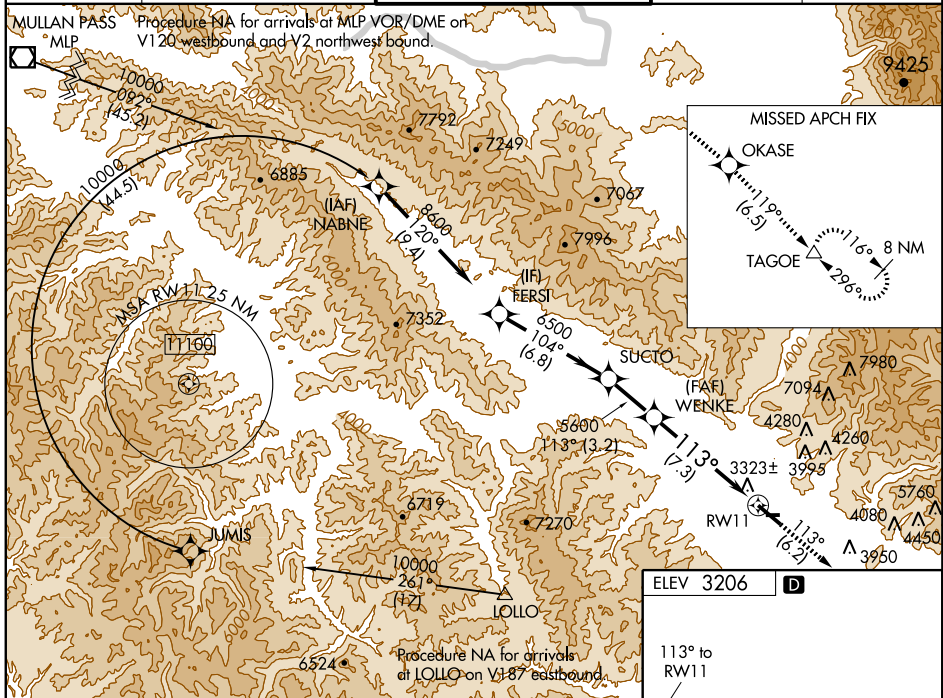
**** Missed approach requires minimum climb of 425 feet per NM to 8300.**

Missed approach requires minimum climb of 350 feet per NM to 8300, if unable see RNAV (GPS) Y RWY 11.

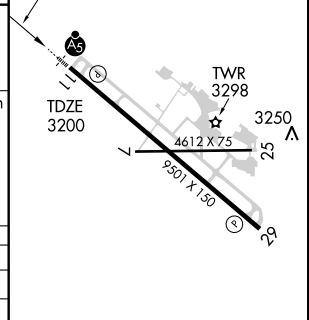
MALSR

MISSED APPROACH:
Climb to 13000 via track 113° to OKASE, and via track 119° to TAGOE and hold, continue climb-in-hold to 13000.

ATIS 126.65	SPOKANE APP CON ★ 124.9 298.95	MISSOULA TOWER ★ 118.4 (CTAF) 0 377.175	GND CON 121.9	UNICOM 122.95
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Procedure Turn NA	FERSI	SUCTO	WENKE	RWY 11
8600	6500	5600	5600	
GP 3.00° TCH 45				
	6.8 NM	3.2 NM	7.3 NM	
CATEGORY	A	B	C	D
RNP 0.12 DA**		3518-3/4	318 (400-3/4)	
RNP 0.30 DA##		3880-2	680 (700-2)	



SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

REIL Rwy 29
MIRL Rwy 7-25
HIRL Rwy 11-29 0

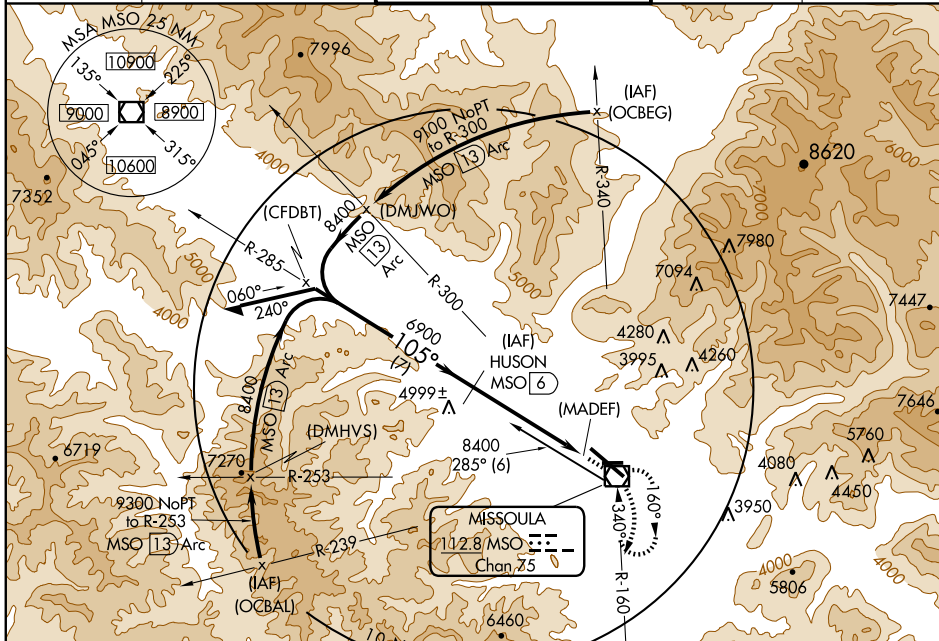
VOR/DME MSO 112.8 Chan 75	APP CRS 105°	Rwy Idg TDZE Apt Elev 3201	N/A N/A 3201
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VOR/DME or GPS-A

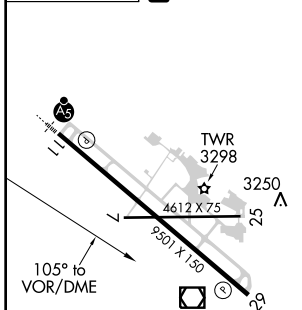
MISSOULA INTL (MSO)

	<p>MISSED APPROACH: Climb direct to MSO VOR/DME, then climbing right turn to 8000 outbound on R-160 then climbing left turn to 9000 inbound on the R-160 to MSO VOR/DME and hold.</p>
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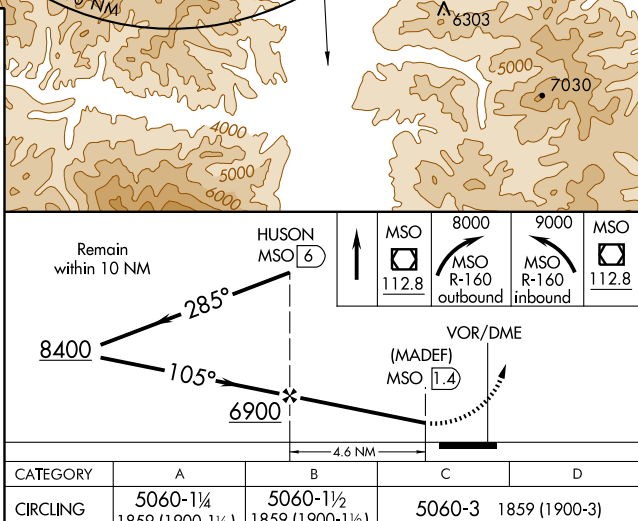
ATIS 126.65	SPOKANE APP CON ★ 124.9 298.95	MISSOULA TOWER ★ 118.4 (CTAF) 0 377.175	GND CON 121.9	UNICOM 122.95
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ELEV 3201	D
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REIL Rwy 29
MIRL Rwy 7-25
HIRL Rwy 11-29



VOR/DME MSO <u>112.8</u> Chan 75	APP CRS 335°	Rwy Idg N/A TDZE N/A Apt Elev 3201
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VOR/DME or GPS-B
MISSOULA INTL (MSO)



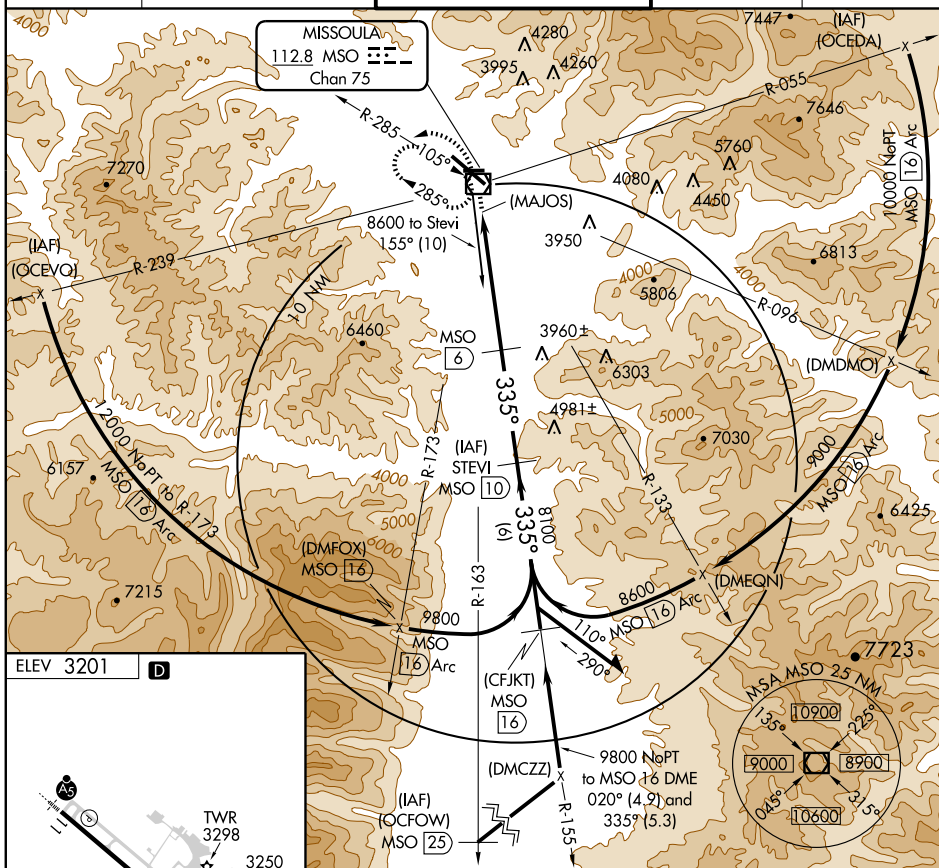
MISSED APPROACH: Climb direct MSO VOR/DME, then climbing left turn to 7500 on R-285 then climbing left turn to 9000 direct MSO VOR/DME and hold.

ATIS
126.65

SPOKANE APP CON ★
124.9 298.95

MISSOULA TOWER ★
118.4 (CTAF) ● 377.175

GND CON
121.9

UNICOM
122.95



ELEV 3201

D

3250

335° to
VORTAC

REIL Rwy 29
MIRL Rwy 7-25
HIRL Rwy 11-29 **L**

↑	MSO  112.8	7500 ↖ MSO R-285	9000 ↖	MSO  112.8
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VOR/D

MSO

 12.8

STEVI
MSO 10

Remain
within 10 NM

11

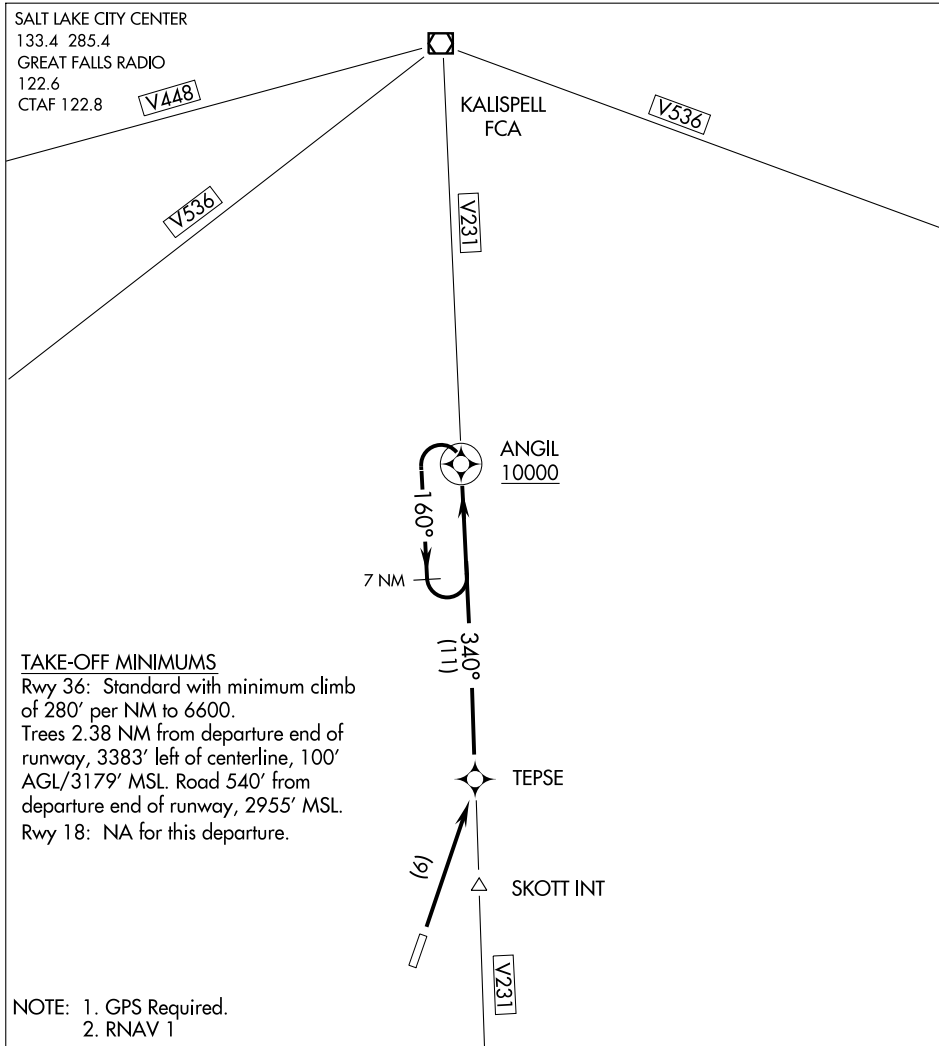
MSO

8100

CATEGORY	A	B	C	D
CIRCLING	4500-1¼ 1299 (1300-1¼)	4500-1½ 1299 (1300-1½)	4600-3 1399 (1400-3)	4740-3 1539 (1600-3)

(ANGIL1.ANGIL) 07074 SL-9529 (FAA)
ANGIL ONE DEPARTURE (RNAV) (OBSTACLE)

POLSON (8S1)
POLSON, MONTANA



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 36: Climb direct to TEPSE WP, then via 340° track to ANGIL WP, Thence....

....Climb in the ANGIL WP holding pattern to cross ANGIL WP at or above 10,000 prior to proceeding on course.

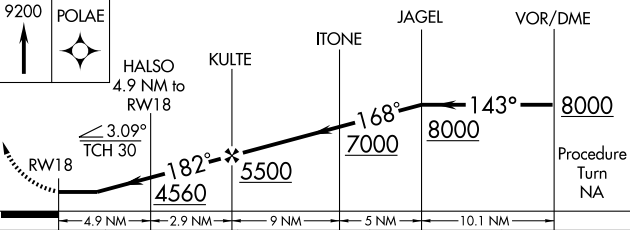
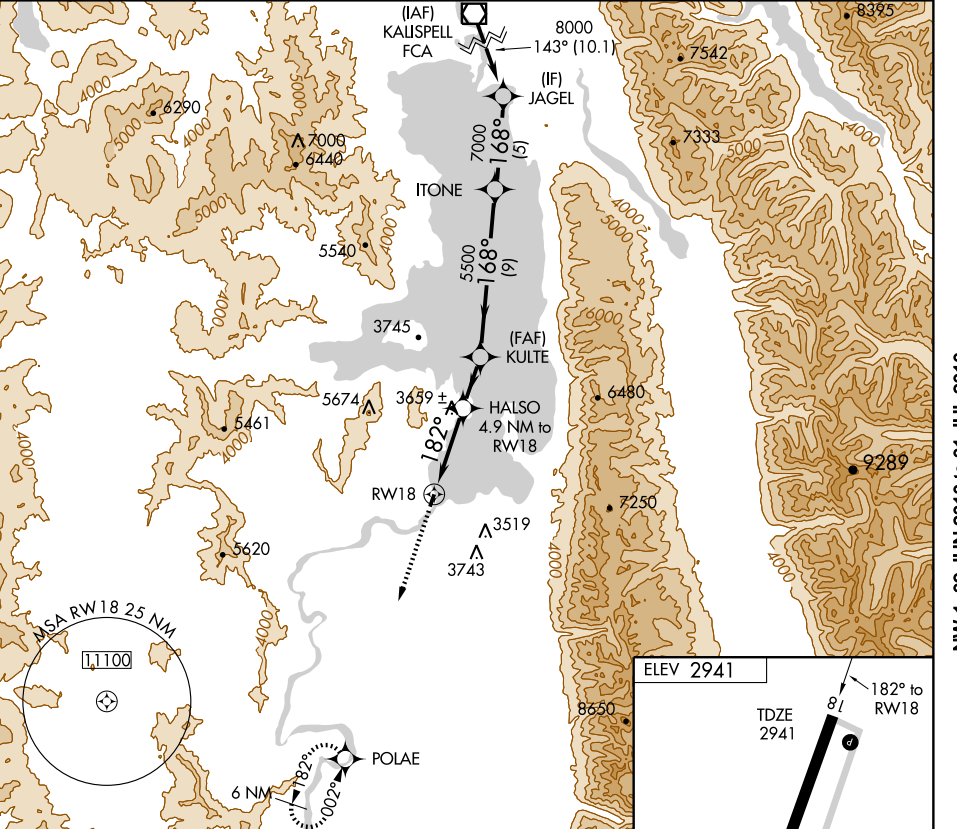
▼

NA

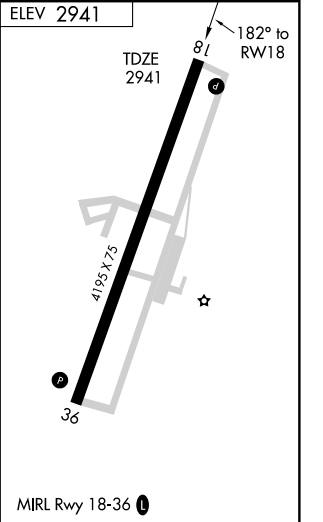
Procedure NA at night.
DME/DME RNP- 0.3 NA.
Use Glacier Park Intl altimeter setting.

MISSED APPROACH: Climb to 9200 direct POLAE and hold.

GLACIER PARK INTL ASOS 132.625	SALT LAKE CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
RNAV MDA	4480-1¼ 1539 (1600-1¼)	4480-1½ 1539 (1600-1½)	NA	NA
CIRCLING	4480-1¼ 1539 (1600-1¼)	4480-1½ 1539 (1600-1½)	NA	NA



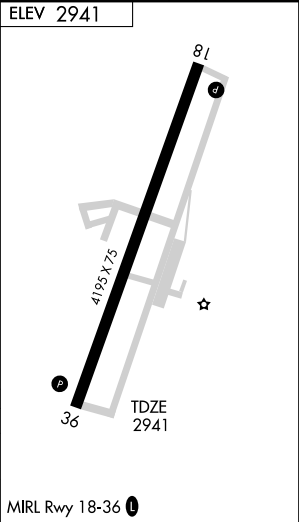
Procedure NA at night.
DME/DME RNP-0.3 NA.
Use Glacier Park Intl altimeter setting.

MISSED APPROACH: Climbing left turn to 9000 direct
GORTE WP and hold.

GLACIER PARK INTL ASOS 132.625	SALT LAKE CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0
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6 NM Holding Pattern				
GORTE				
DODSE				
BESKE 4.5 NM to MIGSE				
MIGSE				
9000 GORTE				
8100 ← 208° 028° → 013° 6400 3.22° TCH 40 4800				
6 NM 4.7 NM 4.5 NM 0.8				
CATEGORY	A	B	C	D
LNAV	4340-1¼ 1399 (1400-1¼)	4340-1½ 1399 (1400-1½)	NA	
CIRCLING	4340-1¼ 1399 (1400-1¼)	4340-1½ 1399 (1400-1½)	NA	

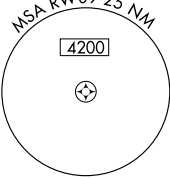
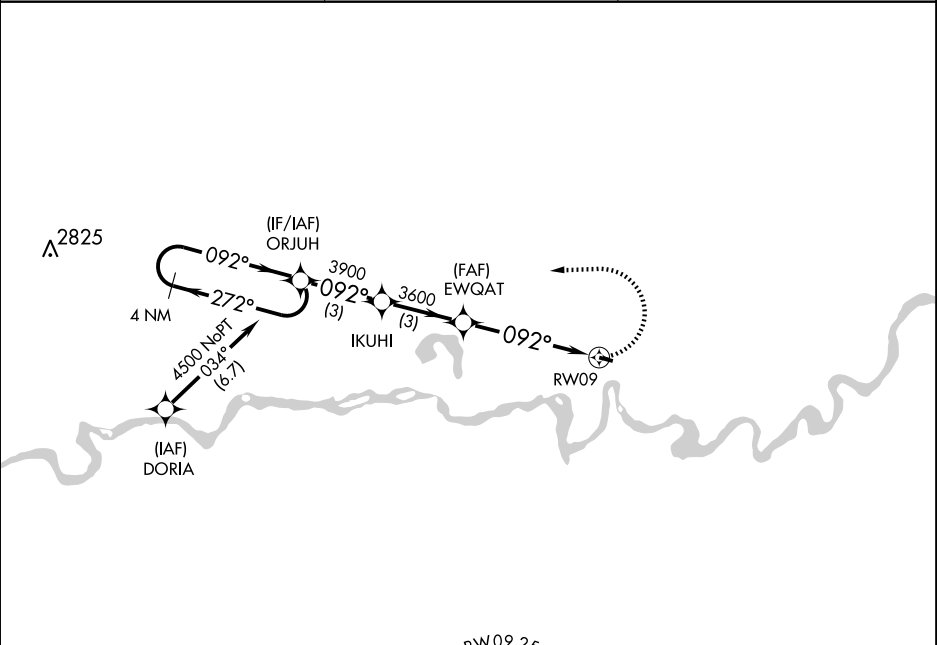


APP CRS 092°	Rwy Idg TDZE Apt Elev	3030 2005 2005
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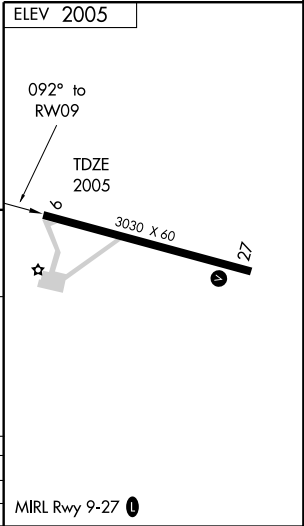
RNAV (GPS) RWY 9
POPLAR (42S)

▲ NA Use Wolf Point altimeter setting. GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climbing left turn to 4500 direct ORJUH WP and hold.
---	--

WOLF POINT ASOS 118.325	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 0
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4 NM Holding Pattern				
CATEGORY	A	B	C	D
LNAY MDA	2480-1	475 (500-1)	NA	
CIRCLING	2500-1	495 (500-1)	NA	



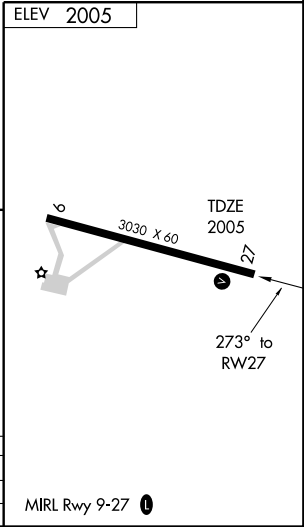
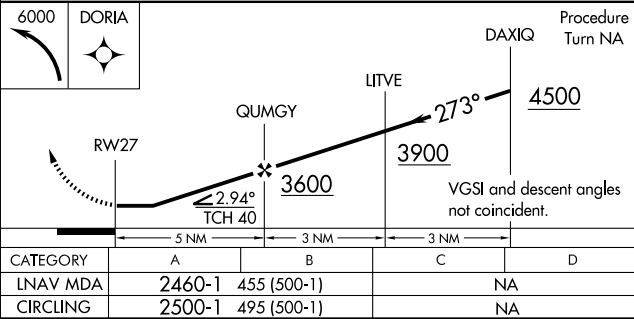
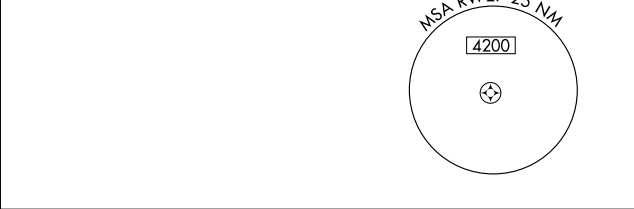
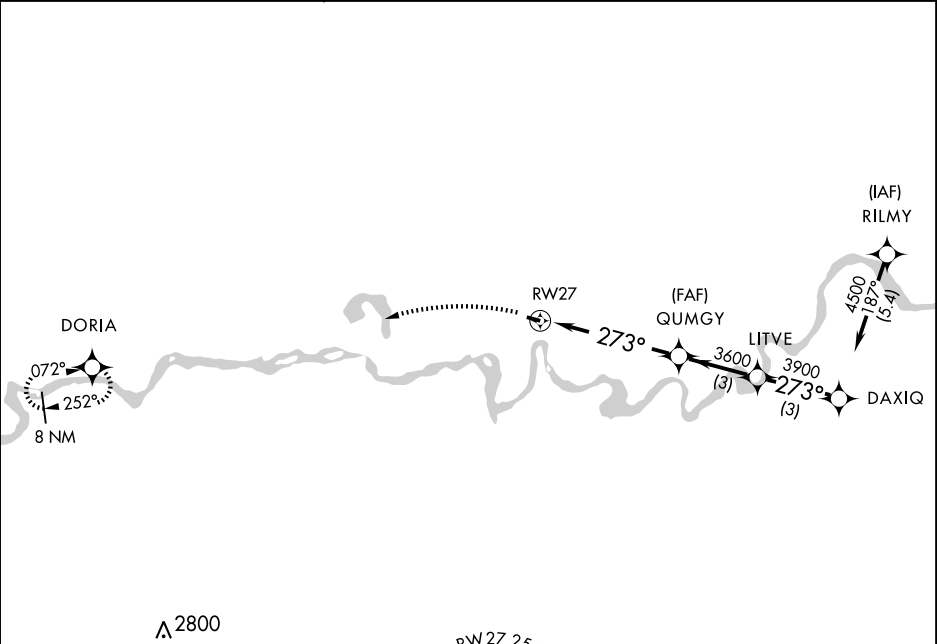
APP CRS 273°	Rwy Idg TDZE Apt Elev	3030 2005 2005
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RNAV (GPS) RWY 27
POPLAR (42S)

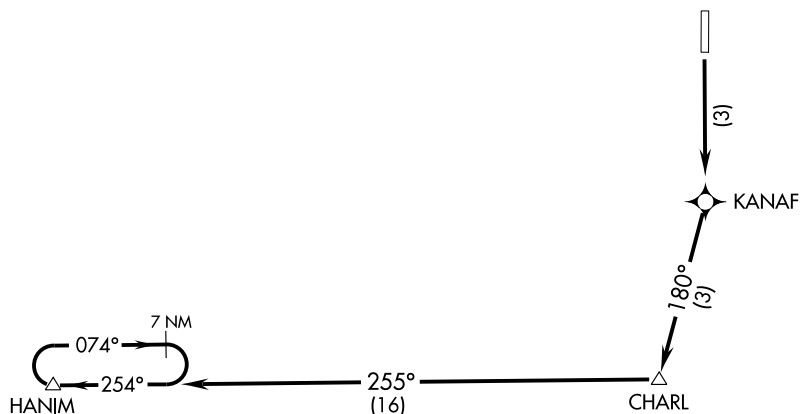
▲ NA Use Wolf Point altimeter setting.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 not authorized.

MISSED APPROACH: Climbing left turn to 6000 direct
DORIA WP and hold.

WOLF POINT ASOS 118.325	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 0
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SALT LAKE CITY CENTER
133.4 285.4
GREAT FALLS RADIO
122.6
CTAF 122.8



NOTE: RNAV 1.

NOTE: GPS required.

TAKE-OFF MINIMUMS:

Rwy 16: Standard.

Rwy 34: NA. See RONAN DEPARTURE.

TAKE-OFF OBSTACLE NOTE:

Rwy 16: Tree 485' from DER, 386' left of centerline, 50' AGL/3149' MSL.

NOTE: Chart not to scale

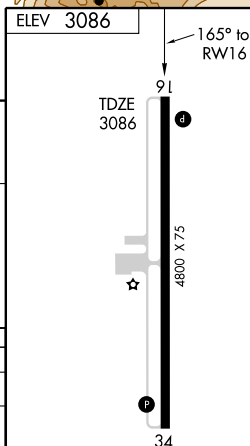
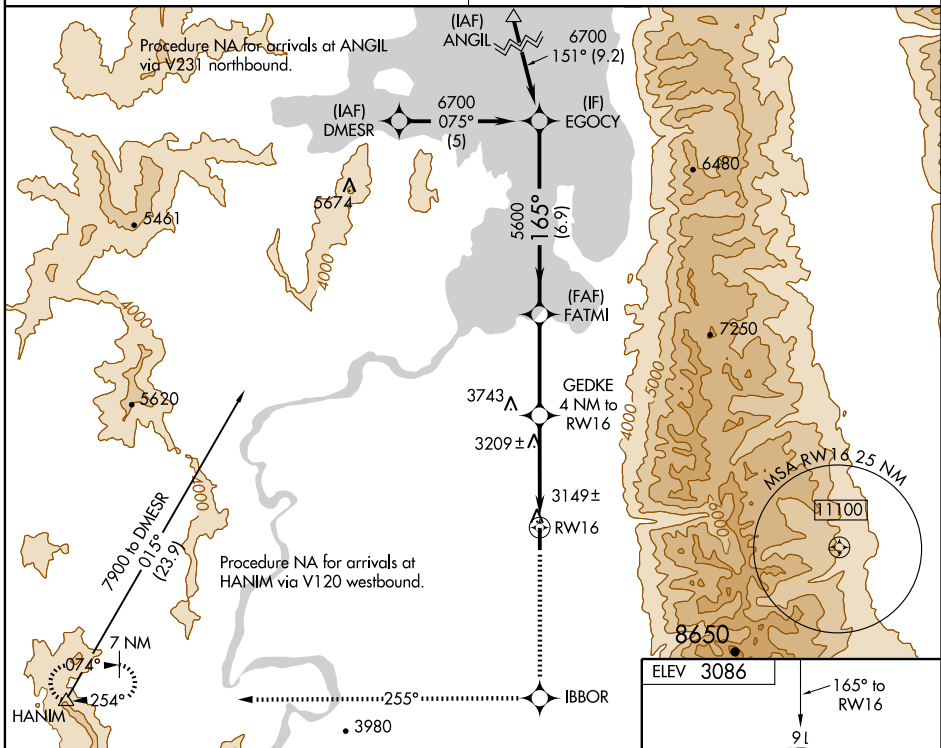



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb to 13000 direct KANAF and via track 180° to CHARL and via track 255° to HANIM and hold, continue climb-in-hold to 13000 before proceeding on course.

RNAV (GPS) RWY 16
RONAN (7S0)

MISSED APPROACH: Climb to 13000 direct IBBOR and via track 255° to HANIM and hold, continue climb-in-hold to 13000.

UNICOM
122.8 (CTAF) 


CATEGORY	A	B	C	D
LPV DA	3386-1	300 (300-1)	NA	
LNAV/VNAV DA	3531-1½	445 (500-1½)	NA	
LNAV MDA	3460-1	374 (400-1)	NA	
CIRCLING	3460-1 374 (400-1)	3540-1 454 (500-1)	NA	

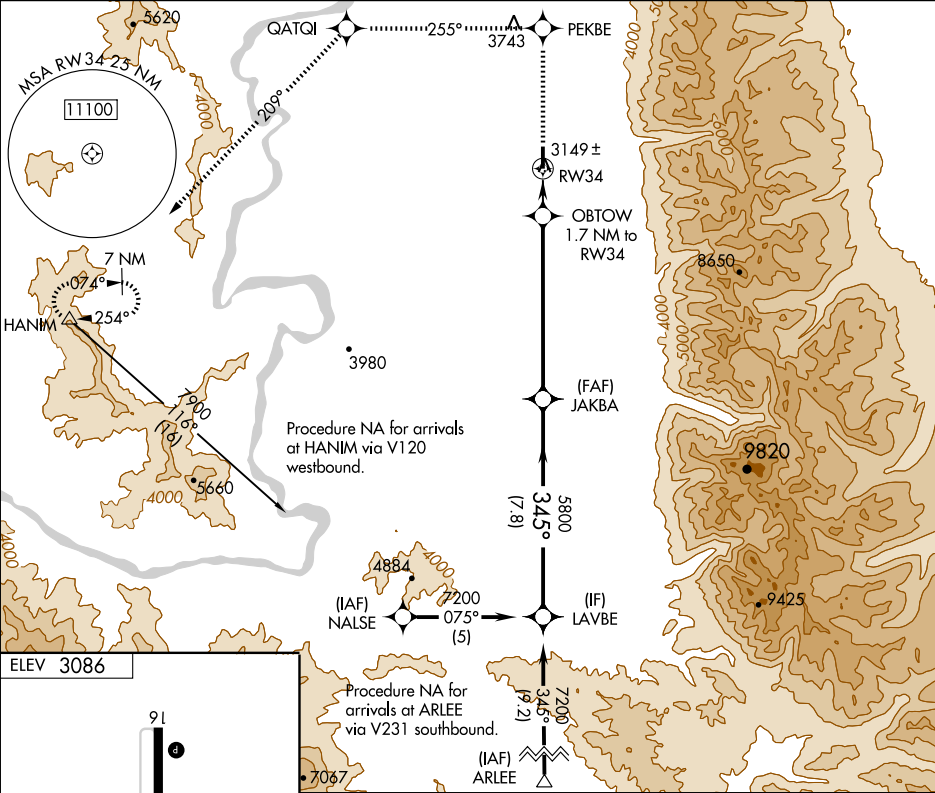
MIRL Rwy 16-34 **L**

WAAS CH 86614 W34A	APP CRS 345°	Rwy Idg TDZE Apt Elev	4800 3081 3086
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RNAV (GPS) RWY 34

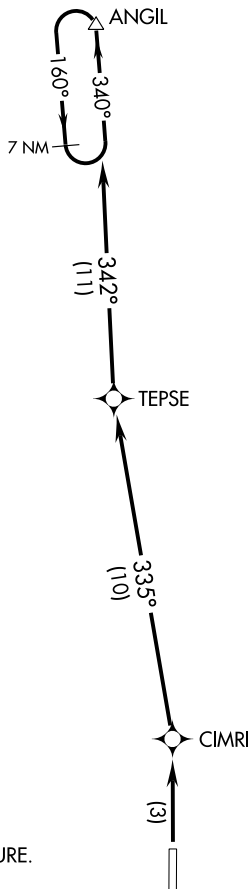
RONAN (7S0)

 Circling NA east of Rws 16 and 34. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 13000 direct PEKBE and via track 255° to QATQI and via track 209° to HANIM and hold, continue climb-in-hold to 13000.
SALT LAKE CITY CENTER 133.4 285.4	UNICOM 122.8 (CTAF) 0



ELEV 3086	91	4800 X 75	TDZE 3081	34	345° to RW34	MIRL Rwy 16-34
13000	PEKBE	trk 255°	QATQI	trk 209°	HANIM	VGSI and RNAV glidepath not coincident.
*LNAV only	OBTOW 1.7 NM to RW34	*1 NM to RW34	3660*	5800	7200	Procedure Turn NA GS 3.00° TCH 40
1 NM	0.7 NM	6.5 NM	7.8 NM			
CATEGORY	A	B	C	D		
LPV DA	3392-1	311 (400-1)		NA		
LNAV MDA	3400-1	319 (400-1)		NA		
CIRCLING	3460-1 374 (400-1)	3540-1 454 (500-1)		NA		

SALT LAKE CITY CENTER
133.4 285.4
GREAT FALLS RADIO
122.6
CTAF 122.8



NOTE: RNAV 1.

NOTE: GPS required.

TAKE-OFF MINIMUMS:

Rwy 16: NA. See HANIM ONE DEPARTURE.

Rwy 34: Standard.

TAKE-OFF OBSTACLE NOTES:

Rwy 34: Building 158' from DER, 370' left of centerline, 40' AGL/3130' MSL.

Tree 1358' from DER, 556' left of centerline, 50' AGL/3149' MSL.

NOTE: Chart not to scale





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34: Climb to 10000 direct CIMRI and via track 335° to TEPSE and via track 342° to ANGIL and hold, continue climb-in-hold to appropriate MEA before proceeding on course.

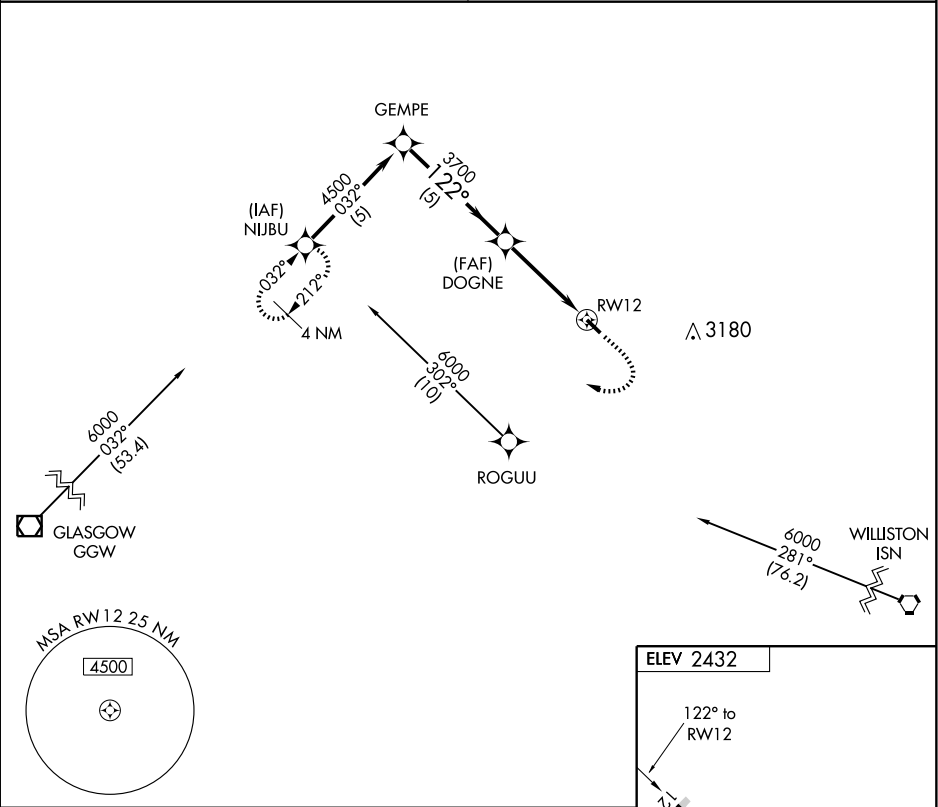
APP CRS	Rwy Idg	4015
122°	TDZE	2385
	Apt Elev	2432

RNAV (GPS) RWY 12

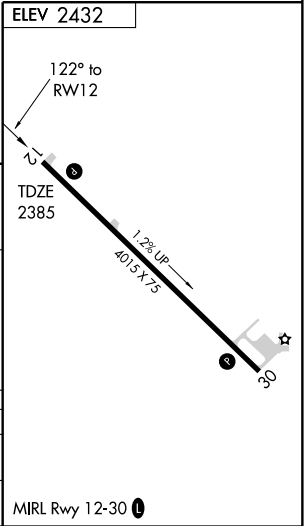
SCOBEY (9S2)

 GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 3600 then climbing right turn to 6000 direct NIJBU WP and hold.
 Use Wolf Point altimeter setting; when not received procedure not authorized.	

SALT LAKE CITY CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 
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Procedure Turn NA				
VGSIs and descent angles not coincident.				
GEMPE 4500 122° DOGNE 3700 RWY 12				
5 NM 4 NM				
CATEGORY	A	B	C	D
LNAV MDA	3100-1	715 (700-1)	NA	
CIRCLING	3100-1	668 (700-1)	NA	



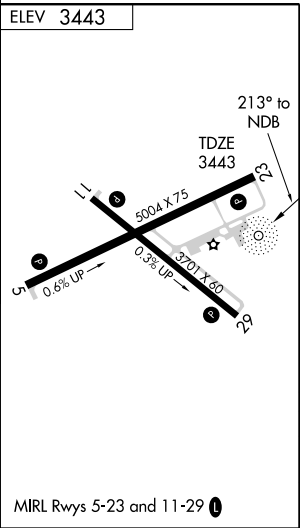
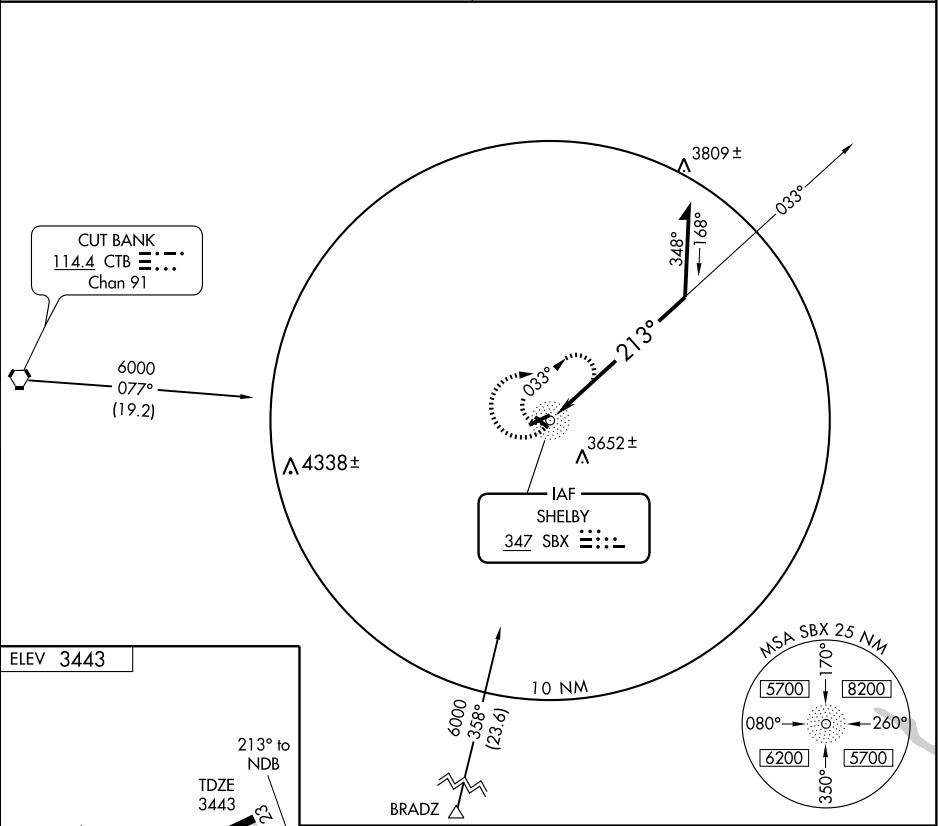
NDB SBX	APP CRS	Rwy Idg	5004
347	213°	TDZE	3443
		Apt Elev	3443

NDB RWY 23
SHELBY (SBX)

Visibility reduction by helicopters NA.
Use Cut Bank altimeter setting, if not received, use Great Falls altimeter setting and increase all MDAs 120 feet.

MISSED APPROACH: Climbing right turn to 5500 in SBX NDB holding pattern.

SALT LAKE CITY CENTER 133.4 285.4	UNICOM 122.8 (CTAF)
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5500				
NDB				
Remain within 10 NM				
033°				
213°				
5500				
CATEGORY	A	B	C	D
S-23	4240-1 797 (800-1)	4240-1¼ 797 (800-1¼)	4240-2¼ 797 (800-2¼)	NA
CIRCLING	4240-1 797 (800-1)	4240-1¼ 797 (800-1¼)	4240-2¼ 797 (800-2¼)	NA

APP CRS	Rwy Idg	5004
230°	TDZE	3443
	Apt Elev	3443

RNAV (GPS) RWY 23

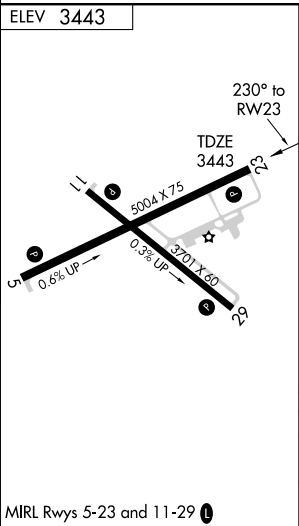
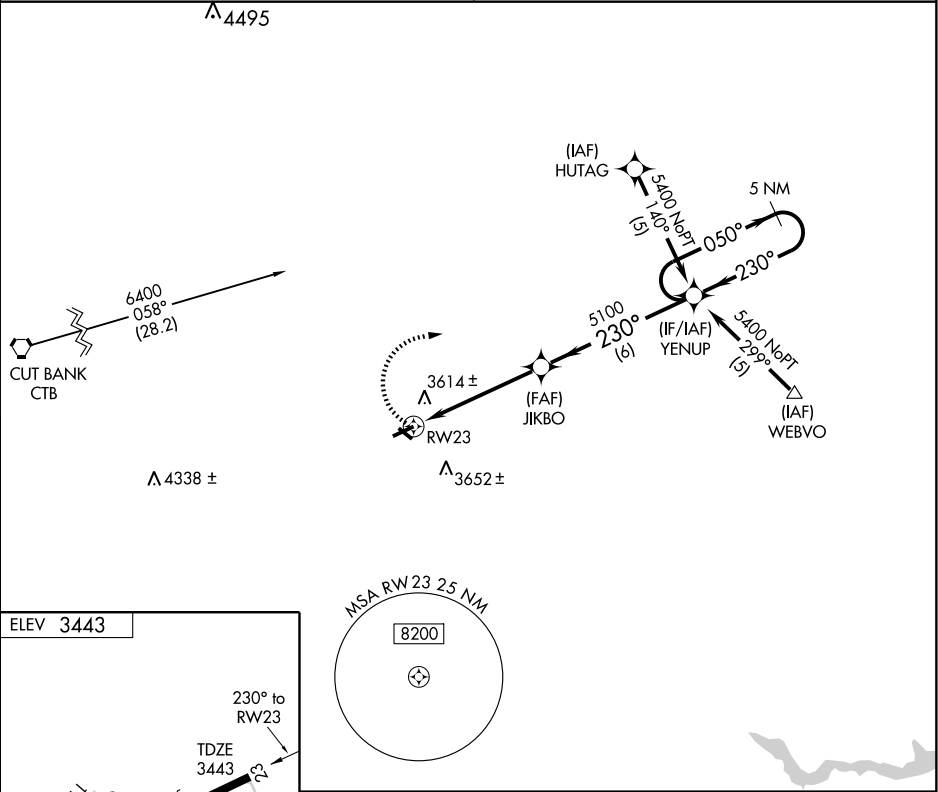
SHELBY (SBX)

▼ DME/DME RNP- 0.3 NA.
▲ NA Circling NA at night.
Visibility reduction by helicopters NA.
Use Cut Bank altimeter setting, if not received, use Great Falls altimeter setting and increase all MDAs 120 feet.

MISSED APPROACH: Climbing right turn to 5400 direct YENUP and hold.

SALT LAKE CITY CENTER
133.4 285.4

UNICOM
122.8 (CTAF) 1



5400		YENUP	5400		5 NM Holding Pattern
RW23		JIKBO	5100		
5 NM		6 NM			
CATEGORY	A	B	C	D	
LNAV MDA	4060-1	617 (700-1)	4060-1¾ 617 (700-1¾)	NA	
CIRCLING	4120-1	677 (700-1)	4120-2 677 (700-2)	NA	

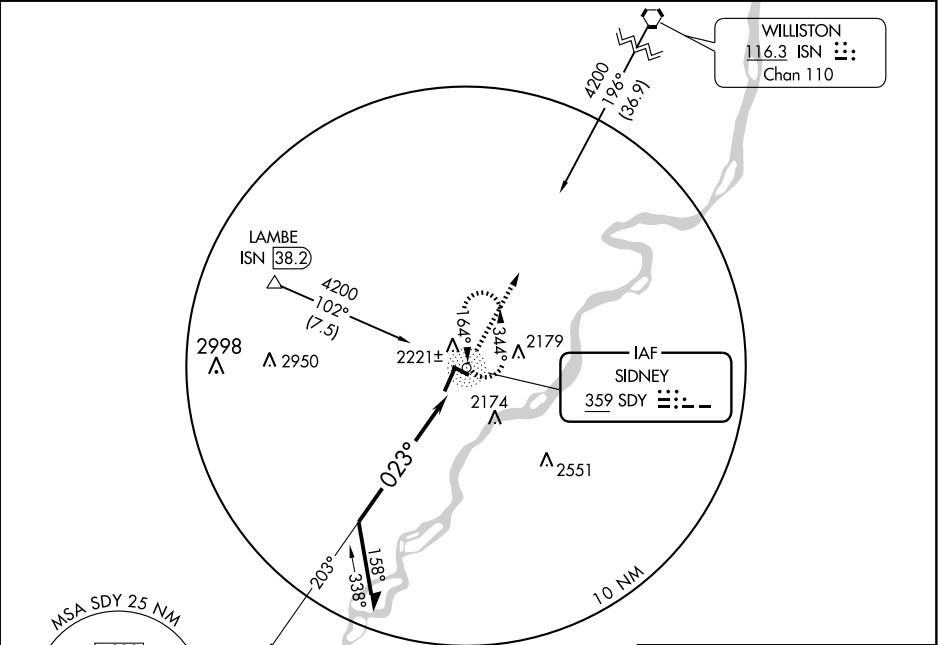
NDB SDY	APP CRS	Rwy Idg	5705
359	023°	TDZE	1984
		Apt Elev	1984

NDB RWY 1
SIDNEY-RICHLAND MUNI (SDY)



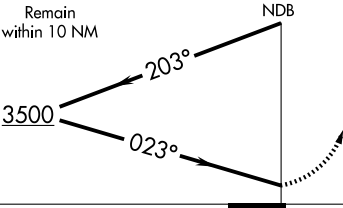
MISSED APPROACH: Climb to 4000 then direct SDY NDB and hold.

AWOS-3 119.275	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF) 0
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MSA SDY 25 NM
4300

Remain within 10 NM

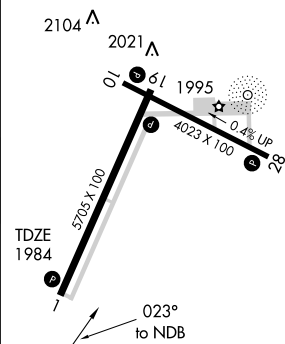


4000

SDY
359

CATEGORY	A	B	C	D
S-1	2720-1	736 (800-1)	2720-2 736 (800-2)	2720-2¼ 736 (800-2¼)
CIRCLING	2720-1	736 (800-1)	2720-2 736 (800-2)	2720-2¼ 736 (800-2¼)

ELEV 1984 D



TDZE 1984

023° to NDB

REIL Rwy 1, 19, 10, and 28 0
MIRL Rwy 1-19 and 10-28 0

NDB SDY	APP CRS	Rwy Idg	5705
359	164°	TDZE	1979
		Apt Elev	1984

NDB RWY 19

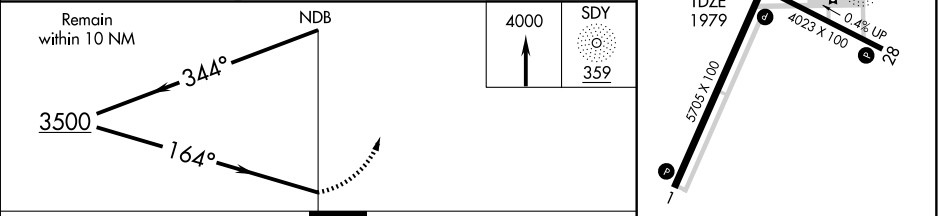
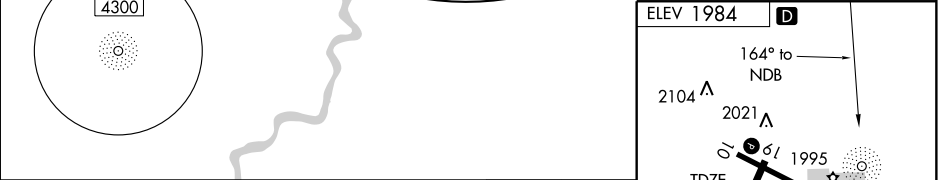
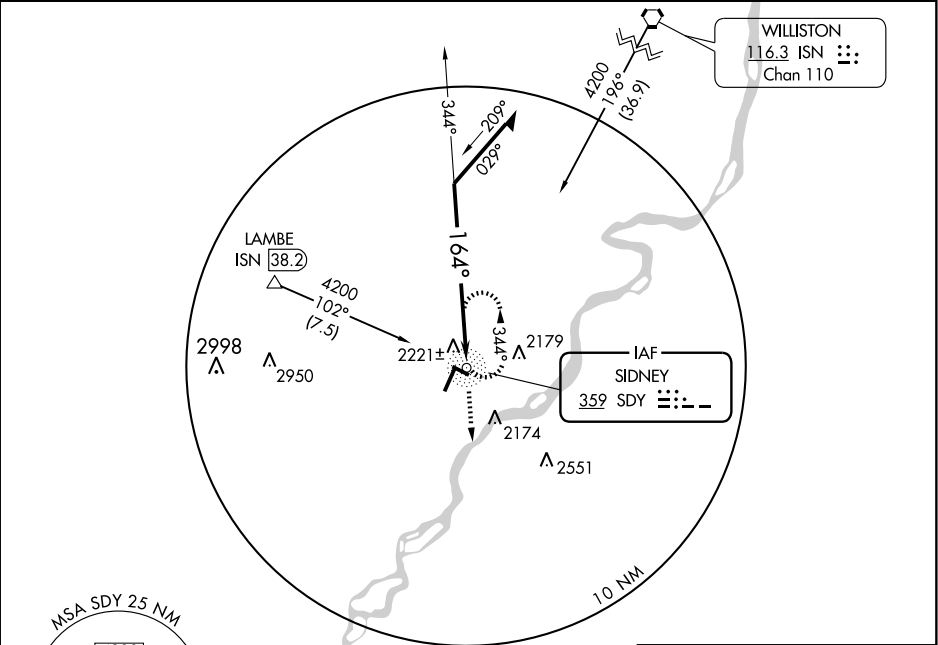
SIDNEY-RICHLAND MUNI (SDY)

▼

▲

MISSED APPROACH: Climb to 4000 then direct SDY NDB and hold.

AWOS-3 119.275	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-19	2780-1 801 (800-1)	2780-1¼ 801 (800-1¼)	2780-2¼ 801 (800-2¼)	2780-2½ 801 (800-2½)
CIRCLING	2780-1 796 (800-1)	2780-1¼ 796 (800-1¼)	2780-2¼ 796 (800-2¼)	2780-2½ 796 (800-2½)

REIL Rwy 1, 19, 10, and 28 0

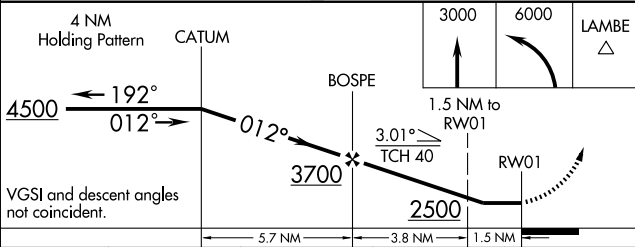
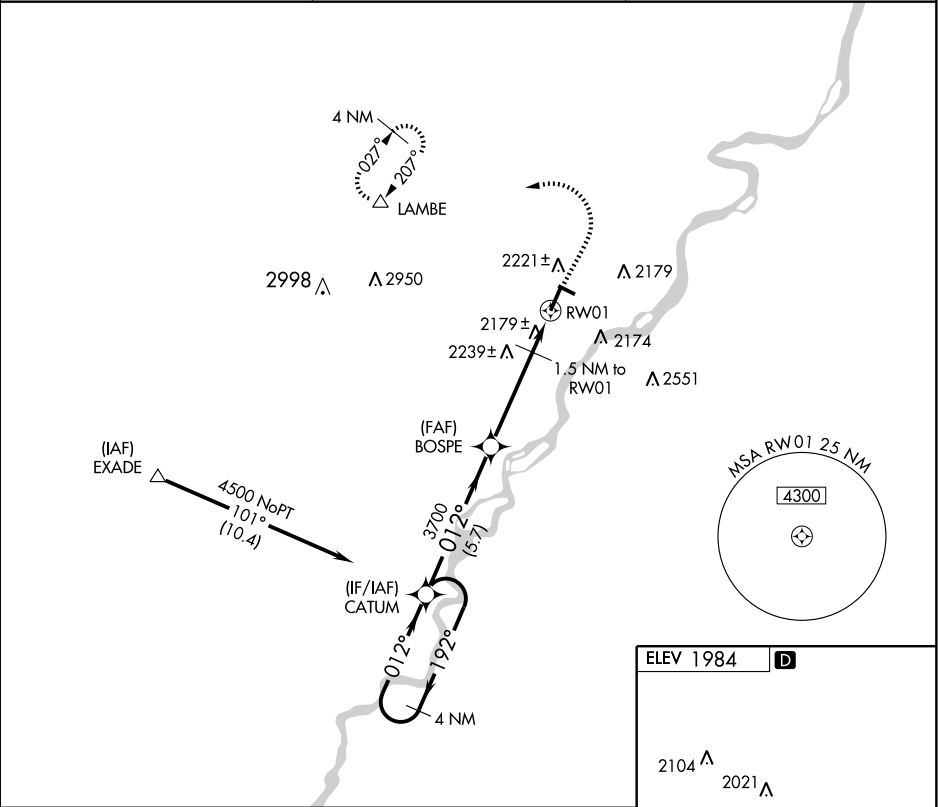
MIRL Rwy 1-19 and 10-28 0

APP CRS	Rwy Idg	5705
012°	TDZE	1984
	Apt Elev	1984

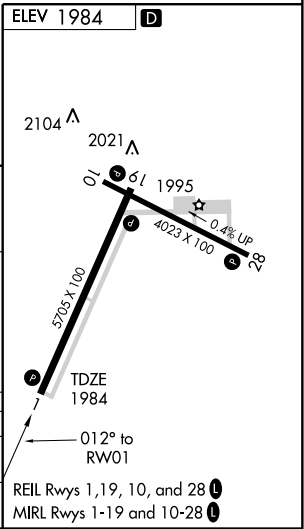
RNAV (GPS) RWY 1
SIDNEY-RICHLAND MUNI (SDY)

NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 3000 then climbing left turn to 6000 direct LAMBE WP and hold.
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AWOS-3 119.275	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
LNAV MDA	2440-1	456 (500-1)	2440-1½ 456 (500-1½)	2440-1½ 456 (500-1½)
CIRCLING	2620-1 636 (700-1)	2640-1 656 (700-1)	2680-2 696 (700-2)	2700-2¼ 716 (800-2¼)

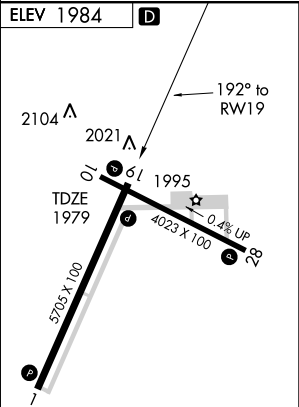
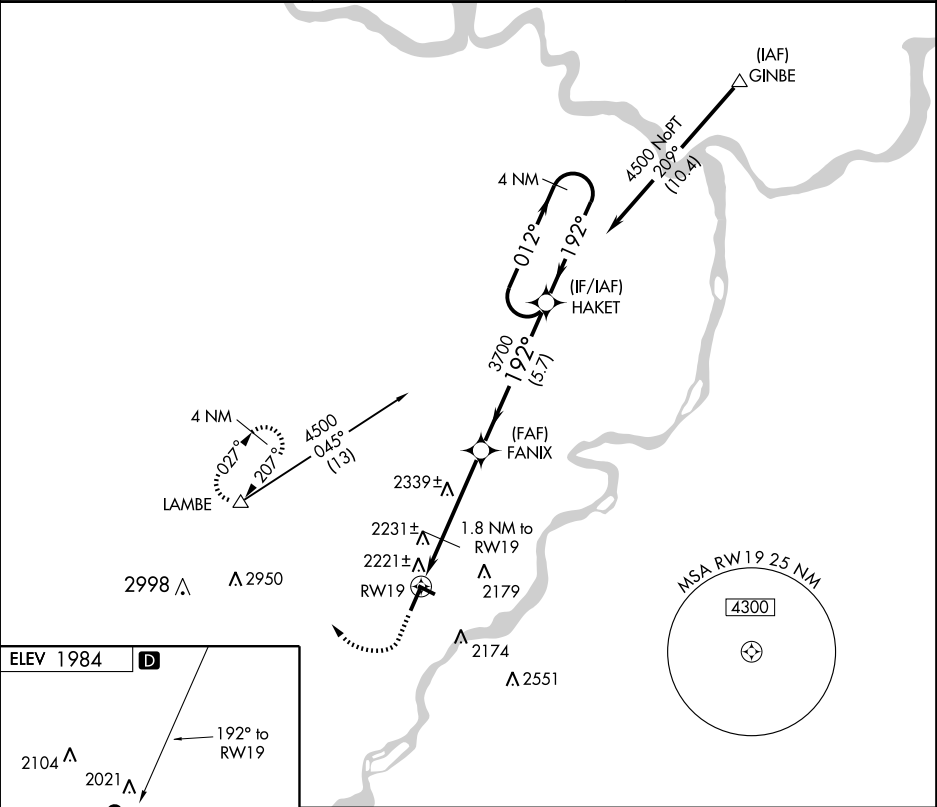


APP CRS 192°	Rwy Idg TDZE Apt Elev	5705 1979 1984
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RNAV (GPS) RWY 19
SIDNEY-RICHLAND MUNI (SDY)

NA	GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 3000 then climbing right turn to 6000 direct LAMBE WP and hold.
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AWOS-3 119.275	GREAT FALLS RADIO 123.65	UNICOM 122.8 (CTAF) 0
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REIL Rwy 1, 19, 10, and 28
MIRL Rwy 1-19 and 10-28

	3000	6000	LAMBE	
				HAKET 4 NM Holding Pattern
				012° 4500
				192°
				3700
				1.8 NM to RW19
				2600
				1.8 NM 3.5 NM 5.7 NM
CATEGORY	A	B	C	D
RNAV MDA	2500-1	521 (600-1)	2500-1½ 521 (600-1½)	2500-1¾ 521 (600-1¾)
CIRCLING	2620-1 636 (700-1)	2640-1 656 (700-1)	2680-2 696 (700-2)	2700-2¼ 716 (800-2¼)

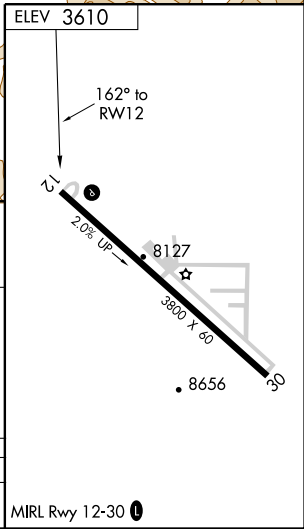
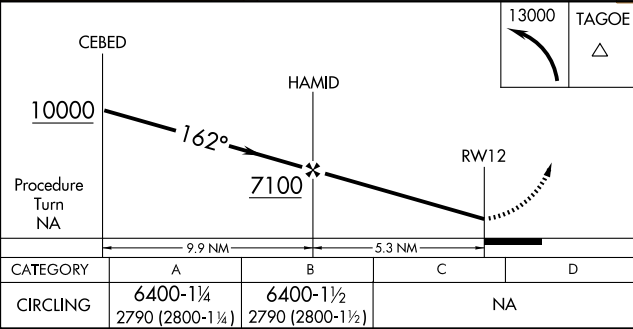
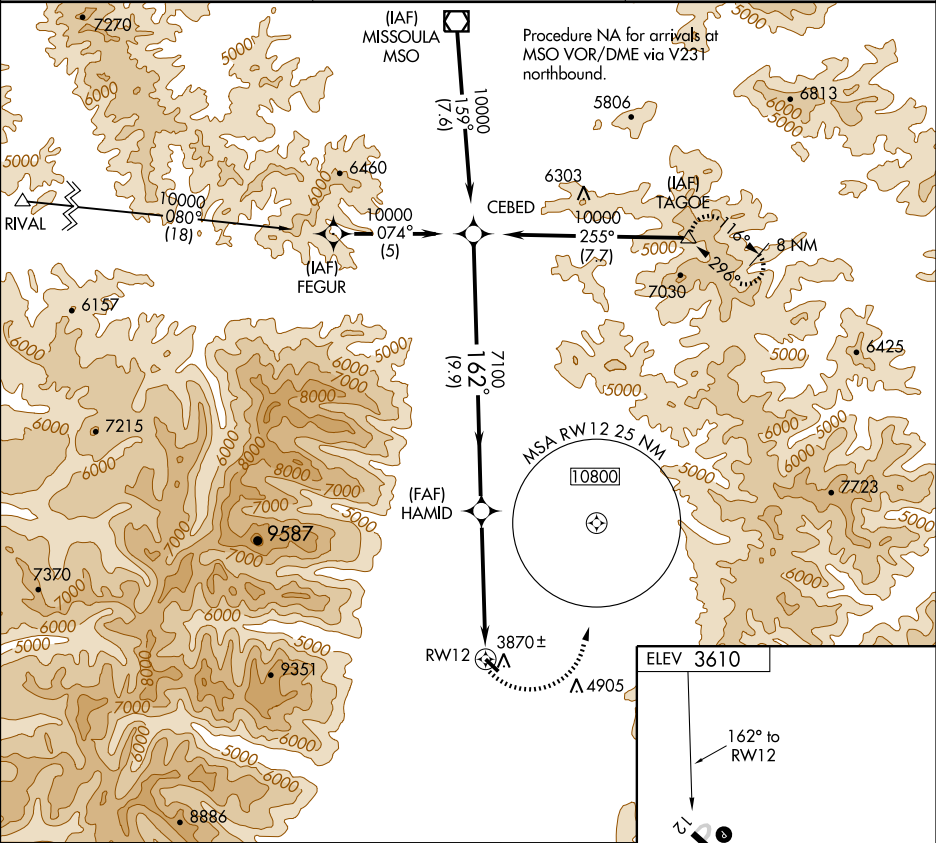
RNAV (GPS)-A
STEVENSVILLE (32S)

APP CRS 162°	Rwy Idg TDZE Apt Elev	N/A N/A 3610
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▼ DME/DME RNP-0.3 NA.
▲ NA Use Missoula Intl altimeter setting.
Circling NA at night to Rwy 30.

MISSED APPROACH: Climbing left turn to 13000 direct
TAGOE WP and hold.

MISSOULA ASOS 126.65	SPOKANE APP CON★ 124.9 298.95	UNICOM 122.8 (CTAF) 0
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LOC I-LOW <u>110.7</u>	APP CRS 010°	Rwy Idg 8399 TDZE 6644 Apt Elev 6644
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ILS or LOC RWY 1
WEST YELLOWSTONE/YELLOWSTONE (WYS)

T
A NA If local altimeter setting not received, procedure not authorized.

MALSR

MISSED APPROACH: Climb to 7600, then climbing right turn to 10000 direct LO LOM and hold.

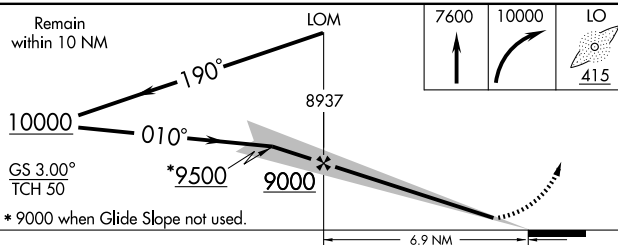
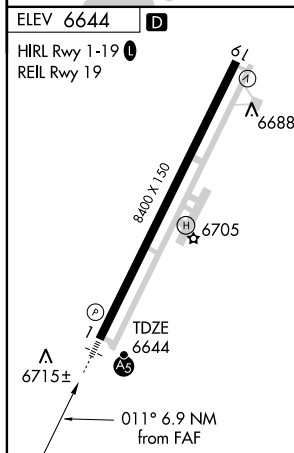
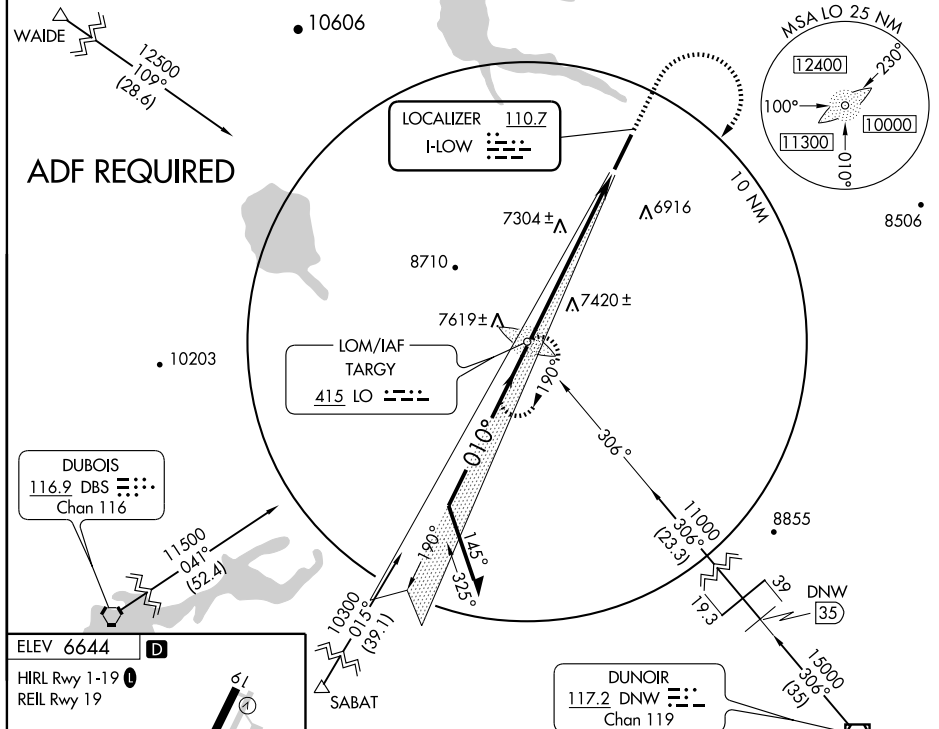
SALT LAKE CENTER
132.4 338.3

UNICOM
123.0 (CTAF)

WAIDE

12500
109°
(28.6)

ADF REQUIRED



<div>6715±</div> <div>AG</div> <div>011° 6.9 NM from FAF</div> <div>FAF to MAP 6.9 NM</div> <table><tr><td>Knots</td><td>60</td><td>90</td><td>120</td><td>150</td><td>180</td></tr><tr><td>Min:Sec</td><td>6:54</td><td>4:36</td><td>3:27</td><td>2:46</td><td>2:18</td></tr></table>							Knots	60	90	120	150	180	Min:Sec	6:54	4:36	3:27	2:46	2:18	CATEGORY		A		B		C		D	
							Knots	60	90	120	150	180																
							Min:Sec	6:54	4:36	3:27	2:46	2:18																
							S-ILS 1		6844-½ 200 (200-½)																			
S-LOC 1		7720-¾ 1076 (1100-¾)		7720-1 1076 (1100-1)		7720-2½		1076 (1100-2½)																				
CIRCLING		7720-1¼ 1076 (1100-1¼)		7720-1½ 1076 (1100-1½)		7720-3		1076 (1100-3)																				

LOM LO 415	APP CRS 011°	Rwy Idg TDZE Apt Elev 8399 6644 6644
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▼

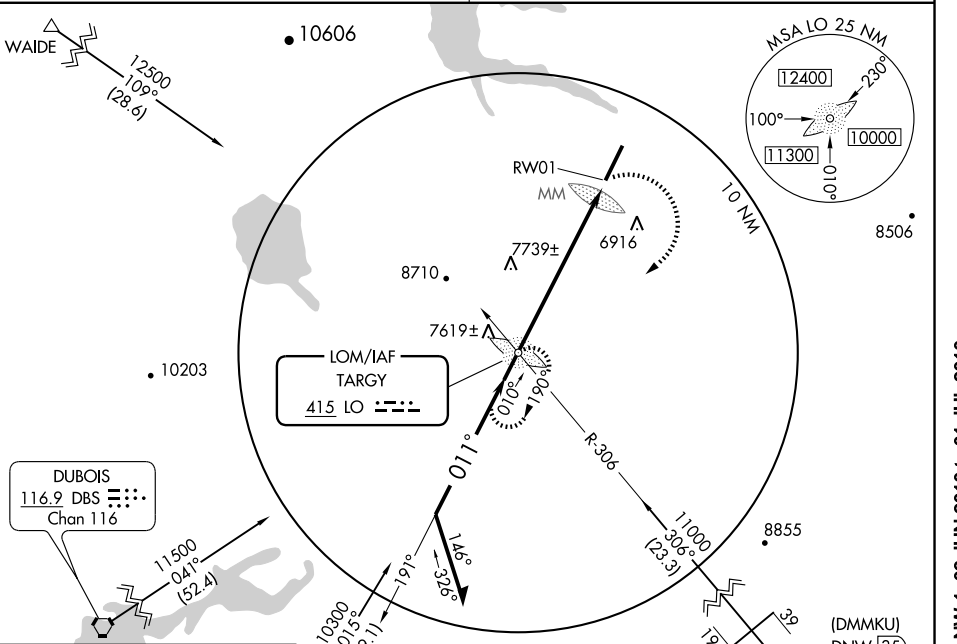
▲ N/A

If local altimeter setting not received, procedure not authorized.
Categories A and B, S-1 visibility increased ½ mile for inoperative MALSR.

MALSR

MISSED APPROACH: Climbing right turn to 10000 direct LO LOM and hold.

SALT LAKE CENTER 132.4 338.3	UNICOM 123.0 (CTAF)
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ELEV **6644**

HIRL Rwy 1-19

REIL Rwy 19

FAF to MAP 6.9 NM

Knots	60	90	120	150	180
Min:Sec	6:54	4:36	3:27	2:46	2:18

Remain within 10 NM

10000

191°

011°

9000

3.15° TCH 50

6.9 NM

RW01

CATEGORY	A	B	C	D
S-1	8000-¾ 1356 (1400-¾)	8000-1 1356 (1400-1)	8000-2½ 1356 (1400-2½)	8000-2¾ 1356 (1400-2¾)
CIRCLING	8000-1¼ 1356 (1400-1¼)	8000-1½ 1356 (1400-1½)	8000-3	1356 (1400-3)

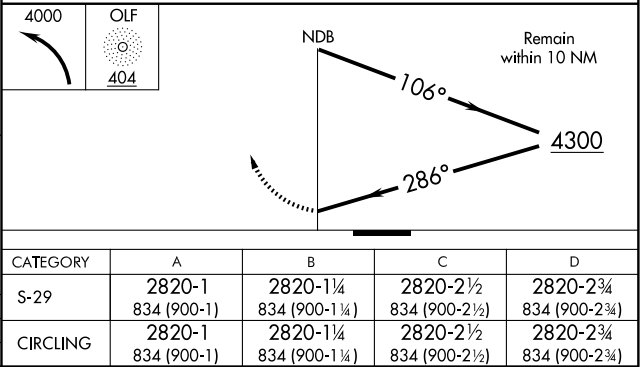
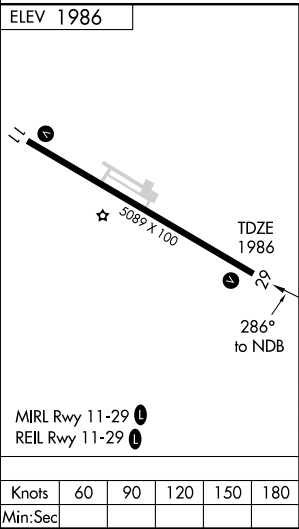
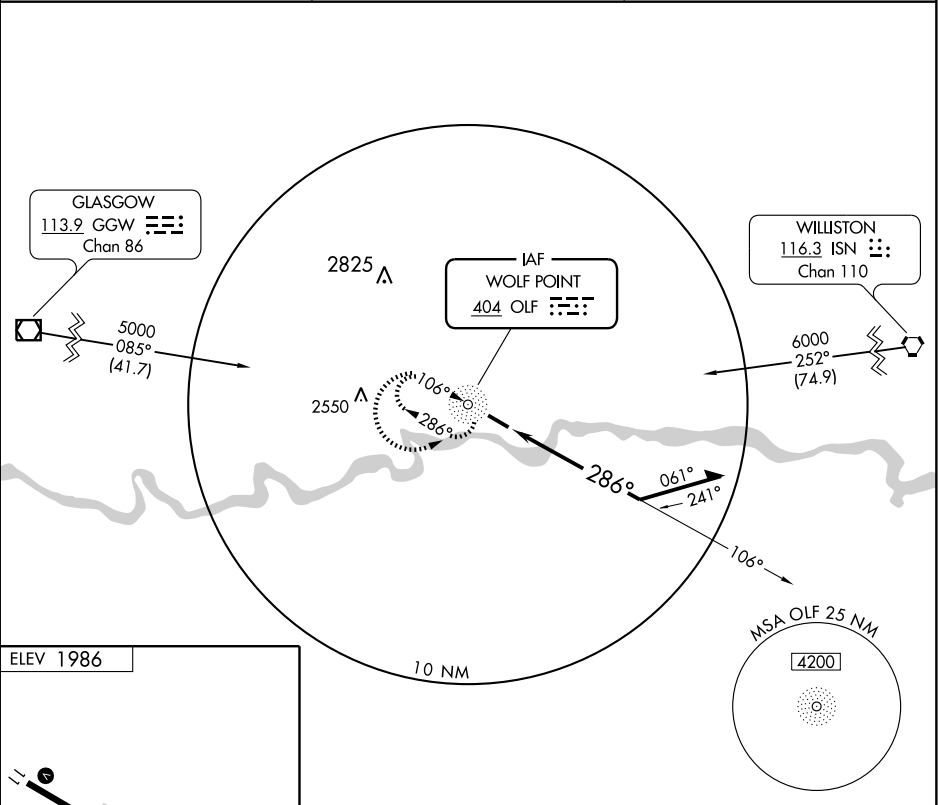
NW-1, 03 JUN 2010 to 01 JUL 2010

▲ NA

If local altimeter setting not received, used Wokal Field/Glasgow Intl altimeter setting and increase all MDAs 160 feet.

MISSED APPROACH: Climbing left turn to 4000 direct OLF NDB continue climb-in-hold to 4000.

ASOS 118.325	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 0
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APP CRS	Rwy Idg	5089
109°	TDZE	1986
	Apt Elev	1986

RNAV (GPS) RWY 11

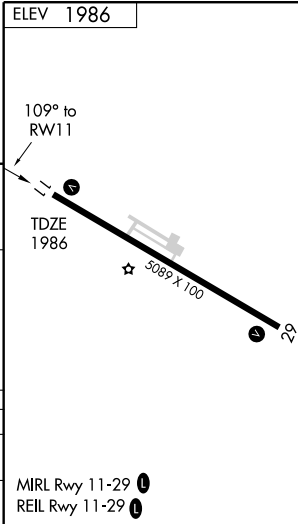
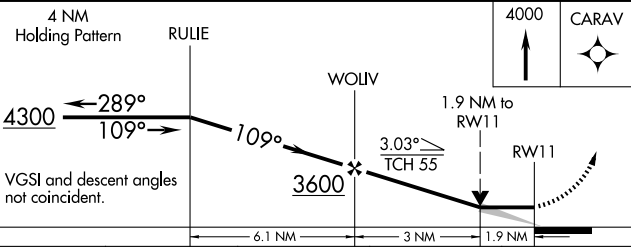
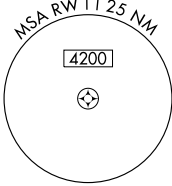
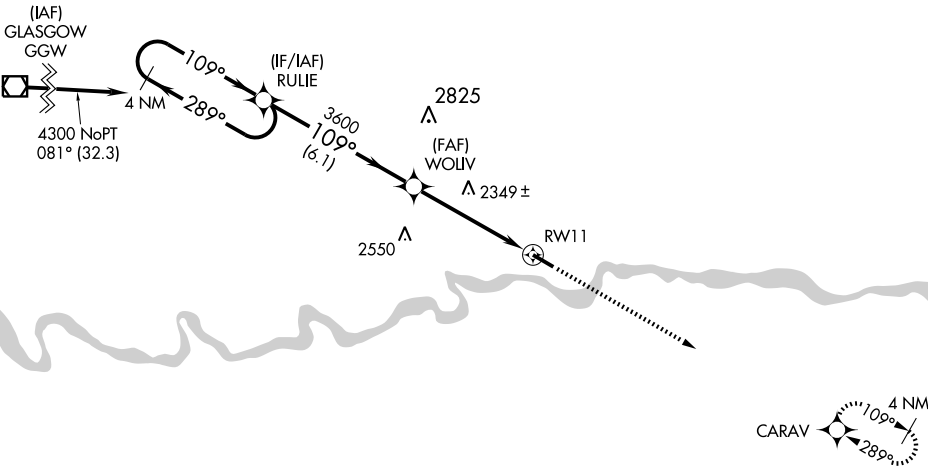
WOLF POINT/ L. M. CLAYTON (OLF)

⚠ DME/DME RNP-0.3 NA.
If local altimeter setting not received, use Wokal Field/Glasgow Intl altimeter setting and increase all MDAs 140 feet.
VDP NA when using Wokal Field/Glasgow Intl altimeter setting.
Straight-in minimums NA at night.

MISSED APPROACH: Climb to 4000 direct CARAV and hold.

ASOS 118.325	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF) 1
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Procedure NA for arrival at GGW VOR/DME via V430 westbound.



CATEGORY	A	B	C	D
LNAV MDA	2600-1 614 (700-1)		2600-1¾ 614 (700-1¾)	2600-2 614 (700-2)
CIRCLING	2600-1 614 (700-1)		2600-1¾ 614 (700-1¾)	2600-2 614 (700-2)

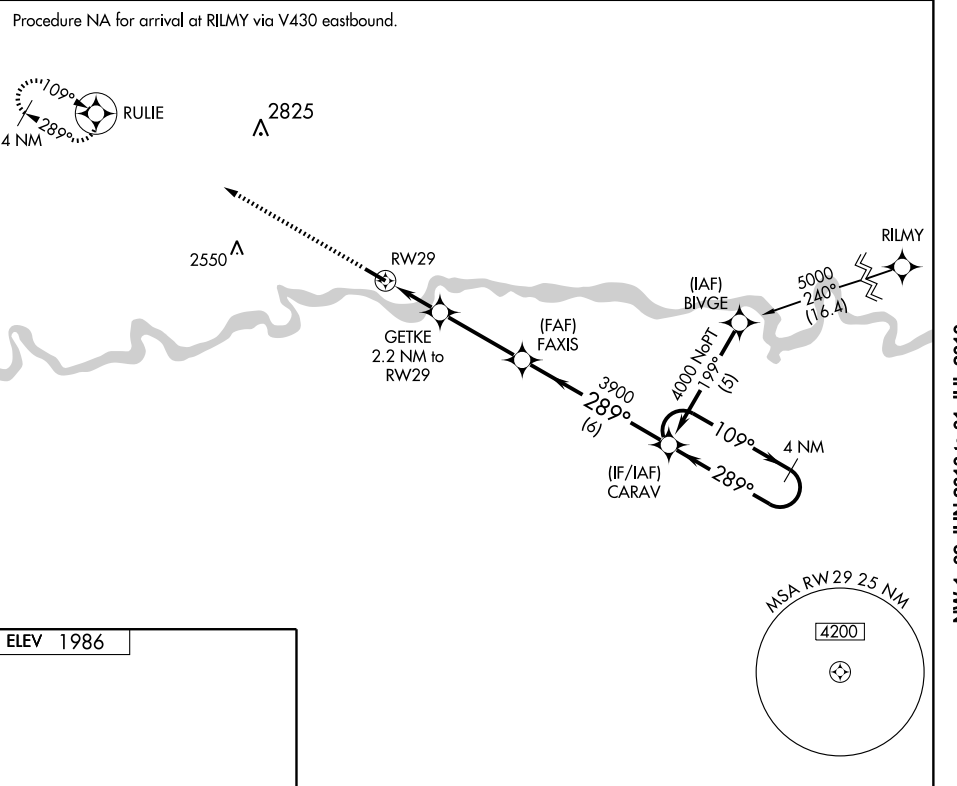
MIRL Rwy 11-29 **1**
REIL Rwy 11-29 **1**

▲

DME/DME RNP- 0.3 NA.
If local altimeter setting not received, use Wokal Field/Glasgow Intl altimeter setting and increase all MDAs 160 feet.
VDP NA when using Wokal Field/Glasgow Intl altimeter setting.

MISSED APPROACH: Climb to 4300 direct RULIE and hold.

ASOS 118.325	SALT LAKE CENTER 126.85 305.2	UNICOM 122.8 (CTAF)
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ELEV 1986

4300	RULIE				
	GETKE 2.2 NM to RW29	FAXIS	CARAV	4 NM Holding Pattern	
	1.2 NM to RW29	≤ 3.13° TCH 55	289°	109°	4000
	2780	3900	VGSI and descent angles not coincident.		
1.2 NM	1 NM	3.4 NM	6 NM		
CATEGORY	A	B	C	D	
LNAV MDA	2380-1 394 (400-1)			2380-1 ¼ 394 (400-1 ¼)	
CIRCLING	2540-1 554 (600-1)		2540-1 ½ 554 (600-1 ½)		2580-2 594 (600-2)

MIRL Rwy 11-29

REIL Rwy 11-29

NW-1. 03 JUN 2010 to 01 JUL 2010

INSTRUMENT APPROACH PROCEDURE CHARTS



IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI VOR/DME or GPS-A
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI NDB or GPS Rwy 34
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL RNAV (GPS) Rwy 26¹²
VOR Rwy 8³

¹NA when local weather not available.

²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

³Category C, 800-2¼; Category D, 900-3.

AURORA, OR

AURORA STATE LOC Rwy 17¹
RNAV (GPS) Rwy 17²³
RNAV (GPS) Rwy 35²

¹Category D, 800-2¼.

²NA when local weather not available.

³Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-2¾.

BAKER, MT

BAKER MUNI NDB Rwy 13¹
NDB Rwy 31²

¹Categories A,B, 1100-2; Categories C,D,
1100-3.

²Categories A,B, 1000-2; Category C, 1000-2¾;
Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI RNAV (GPS) Rwy 13¹²
VOR-A¹³
VOR/DME Rwy 13²⁴

¹NA when local weather not available.

²Category D, 900-2¾.

³Categories A,B, 1900-2; Categories C,D,
1900-3.

⁴NA when control zone not in effect.

NAME ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL ILS or LOC Rwy 16
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD VOR Rwy 31
Category D, 800-2¼.

BILLINGS, MT

BILLINGS LOGAN
INTL NDB Rwy 10L¹
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R³

¹Category D, 800-2¼.

²Categories A,B,C,D, 800-2¼.

³Categories A,B, 900-2; Categories C,D,
900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN
FIELD) LOC BC Rwy 28L
RNAV (GPS) Y Rwy 10R
RNAV (GPS) Y Rwy 28L
VOR/DME or TACAN Rwy 10L
VOR/DME or TACAN Rwy 28L
Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD VOR Rwy 12
Category C, 800-2¼; Category D, 800-2½.

BREMERTON, WA

BREMERTON NATIONAL ..RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 19¹

NA when local weather not available.

¹Categories A,B, 1200-2; Categories C,D,
1200-3.

BUFFALO, WY

JOHNSON COUNTY RNAV (GPS) Rwy 31¹
VOR/DME Rwy 31²

NA when local weather not available.

¹Category D, 800-2¼.

NAME ALTERNATE MINIMUMS

BURLEY, ID

BURLEY MUNI VOR-A
 VOR/DME-B
 NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL NDB Rwy 10'
 RNAV (GPS) Rwy 10
 RNAV (GPS) Rwy 28

NA when local weather not available.

¹Categories A,B, 1300-2; Categories C,D,
 1300-3.

BURNS, OR

BURNS MUNI VOR Rwy 30
 Categories A, B, 1400-2; Categories C,D,
 1400-3.

BUTTE, MT

BERT MOONEY ILS Y Rwy 15'
 LOC/DME Rwy 15'
 RNAV (GPS) Y Rwy 15'
 RNAV (GPS) Z Rwy 15,1200-2
 VOR or GPS-B,1400-3
 VOR/DME or GPS-A,3000-3

¹Categories A, B, C, 1200-4.

²Categories A,B, 1300-2; Categories C,D,
 1300-3.

³Categories A,B, 1500-2; Categories C,D,
 1500-3.

CALDWELL, ID

CALDWELL
 INDUSTRIAL RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 30
 NA when local weather not available.

CASPER, WY

CASPER/NATRONA
 COUNTY INTL ILS or LOC Rwy 3
 ILS, Categories A,B, 800-2; Category C 800-
 2½; Category D, 800-2¾; Category E, 900-3.
 LOC, Category C, 800-2½; Category D, 800-
 2¾; Category E, 900-3.

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON
 FIELD ILS or LOC Rwy 27'
 NDB Rwy 27'
 RNAV (GPS) Rwy 9²
 RNAV (GPS) Rwy 13²
 RNAV (GPS) Rwy 31²

¹NA when control tower closed.

²NA when local weather not available.

NAME ALTERNATE MINIMUMS

CODY, WY

YELLOWSTONE
 REGIONAL RNAV (GPS) Rwy 22'
 VOR or GPS-A²

¹Category C, 800-2½; Category D, 200-2¾.

²Category D, 900-3.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY
 BOYINGTON FIELD ILS or LOC/DME Rwy 5
 NDB Rwy 5
 RNAV (GPS) Rwy 5
 VOR Rwy 5
 VOR/DME Rwy 1

NA when local weather not available.

CORVALLIS, OR

CORVALLIS MUNI VOR-A
 Categories A,B,1200-2; Categories C,D,
 1200-3.

DEER PARK, WA

DEER PARK RNAV (GPS) Rwy 34
 NA when local weather not available.

DILLON, MT

DILLON VOR or GPS-A,1500-3
 VOR/DME or GPS-B
 NA when Dillon altimeter setting not available.

DOUGLAS, WY

CONVERSE COUNTY VOR Rwy 29
 Categories A,B, 1100-2; Categories C,D,
 1100-3. DME standard.

EASTSOUND, WA

ORCAS ISLAND RNAV (GPS)-A
 Categories A, B, 1100-2.
 NA when local weather not available.

ELLENSBURG, WA

BOWERS FIELD RNAV (GPS) Rwy 25'
 RNAV (GPS) Rwy 29
 VOR-B²

NA when local weather not available.

¹Category D, 800-2½.

²Category A, 1500-2.

EPHRATA, WA

EPHRATA MUNI RNAV (GPS) Rwy 3'
 RNAV (GPS) Rwy 21²
 VOR/DME Rwy 3'
 VOR Rwy 21'

NA when local weather not available.

¹Category D, 1300-3.

²Category C, 800-2½; Category D, 1300-3.

NAME ALTERNATE MINIMUMS

EUGENE, OR

MAHLON-SWEET

FIELD ILS or LOC/DME Z Rwy 16R¹
 ILS or LOC Y Rwy 16R¹
 ILS or LOC/DME Rwy 16L¹²
 RNAV (GPS) Rwy 34R²
 VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Categories A,B, 900-2; Category C, 900-2½;
 Category D, 900-2¾.

EVANSTON, WY

EVANSTON-UINTA COUNTY

BURNS FIELD ILS or LOC/DME Rwy 23
 Categories C,D, 700-2.

EVERETT, WA

SNOHOMISH COUNTY(PAINE

FIELD) ILS or LOC/DME Rwy 16R
 NA when control tower closed.
 NA when local weather not available.

FORT BENTON, MT

FORT BENTON RNAV (GPS) Rwy 23
 NA when local weather not available.

GILLETTE, WY

GILLETTE-CAMPBELL

COUNTY ILS or LOC Rwy 34¹²
 RNAV (GPS) Rwy 16³
 RNAV (GPS) Rwy 34⁴
 VOR/DME Rwy 16⁵
 VOR/DME Rwy 34¹

¹Categories A,B, 900-2; Category C, 900-2½;
 Category D, 1000-3.

²NA when control tower closed.

³Categories A,B,C, 800-2¾; Category D,
 1000-3.

⁴Categories A,B,C,D, 1200-4.

⁵Category C, 800-2¾; Category D, 1000-3.

GLASGOW, MT

WOKAL FIELD/

GLASGOW INTL VOR Rwy 12
 Categories A,B, 900-2; Categories C,D, 900-3.
 VOR/DME standard.

GLENDEIVE, MT

DAWSON

COMMUNITY NDB or GPS Rwy 12,900-2¾

GOODING, ID

GOODING MUNI RNAV (GPS) Rwy 7
 RNAV (GPS) Rwy 25

NA when local weather not available.

NAME ALTERNATE MINIMUMS

GRAY AAF (KGRF)

FORT LEWIS, WA NDB Rwy 15
 NDB Rwy 33
 ILS or LOC Rwy 15
 COPTER NDB Rwy 15

NA when control tower closed.

GREAT FALLS, MT

GREAT FALLS INTL NDB Rwy 34
 Category D, 800-2¼.

GREYBULL, WY

SOUTH BIG HORN COUNTY RNAV (GPS)-A
 RNAV (GPS) Rwy 33¹

NA when local weather not available.

¹Category D, 1200-3.

HAILEY, ID

FRIEDMAN

MEMORIAL RNAV (GPS) W Rwy 31
 Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT

HAVRE CITY-COUNTY VOR Rwy 26
 Categories A, B, 900-2; Category C, 900-2¾;
 Category D, 900-3.

HELENA, MT

HELENA RGNL ILS or LOC Y Rwy 27¹²
 ILS or LOC Z Rwy 27¹²
 LOC/DME BC-C¹³
 NDB-D¹⁴
 RNAV (GPS) Y Rwy 9⁵
 RNAV (GPS) Rwy 23⁶
 RNAV (GPS) X Rwy 27⁵
 RNAV (RNP) Z Rwy 9⁷
 RNAV (RNP) Y Rwy 27⁷
 RNAV (RNP) Z Rwy 27⁷⁹
 VOR-A⁸
 VOR/DME-B⁶

¹NA when control tower closed.

²Categories A, B, 1600-2; Categories C, D, E,
 1600-3.

³Categories A, B, 1300-2; Categories C, D,
 1300-3.

⁴Category A, 1200-2.

⁵Categories A, B, 1600-2; Categories C, D,
 1600-3.

⁶Categories A, B, 900-2; Category C, 900-2¾;
 Category D, 900-3.

⁷NA when local weather not available.

⁸Categories A, B, 2900-2; Categories C, D,
 2900-3.

⁹1000-4.

NAME **ALTERNATE MINIMUMS**
HOQUIAM, WA
 BOWERMAN RNAV (GPS) Rwy 24¹
 VOR/DME Rwy 24²
 VOR Rwy 6¹

¹Category D, 800-2½.

²Categories A,B, 900-2; Category C, 900-2¾;
 Category D, 900-3.

IDAHO FALLS, ID
 IDAHO FALLS RGNL ILS or LOC Rwy 20¹
 LOC BC Rwy 2²
 RNAV (GPS) Rwy 20³
 VOR Rwy 20³

¹ILS, Category E, 700-2½. LOC, Category E,
 800-2½.

²Category E, 800-2½.

³NA when local weather not available.

JACKSON, WY
 JACKSON HOLE RNAV (GPS) X Rwy 1¹
 RNAV (GPS) Y Rwy 19¹
 RNAV (RNP) Y Rwy 1, 10681200-4
 VOR/DME Rwy 1²
 VOR/DME Rwy 19³

¹Categories A,B, 1200-2; Categories C,D,
 1200-3.

²Categories A,B,1000-2; Categories C,D,
 1000-3.

³Categories A,B,1400-2; Categories C,D,
 1400-3.

JEROME, ID
 JEROME COUNTY RNAV (GPS) Rwy 9
 RNAV (GPS) Rwy 27¹
 VOR/DME-A

NA when local weather not available.

¹Categories A, B, 1300-2; Categories C, D,
 1300-3.

JOHN DAY, OR
 GRANT COUNTY RGNL/
 OGILVIE FIELD RNAV (GPS) Y Rwy 9
 Category B, 900-2; Category C, 900-2½.

KALISPELL, MT
 GLACIER PARK INTL ILS or LOC Rwy 2¹
 RNAV (RNP) Y Rwy 2²
 RNAV (RNP) Rwy 20, 800-2½²

¹Categories C, D, 700-2.

²NA when local weather not available.

KELSO, WA
 SOUTHWEST
 WASHINGTON RGNL RNAV (GPS) Rwy 12
 Categories A, B, 900-2.

NAME **ALTERNATE MINIMUMS**
KLAMATH FALLS, OR
 KLAMATH FALLS ILS or LOC Rwy 32¹
 RNAV (GPS) Rwy 14²
 VOR/DME or TACAN Rwy 14³
 VOR/DME or TACAN Rwy 32⁴
 VOR or GPS-B,2100-3

¹Categories A,B, 900-2; Category C, 900-2¾;
 Category D, 1000-3. LOC, DME required.

²Categories A,B, 900-2; Category C, 900-2¾;
 Category D, 1000-3.

³Categories C,D, 1000-3; Category E, NA.

⁴Category B, 900-2; Categories C,D, 1000-3;
 Category E, 1500-3.

LAKEVIEW, OR
 LAKE COUNTY VOR/DME-A
 Categories A,B, 900-2; Category C, 900-2½;
 Category D, 900-2¾.

LEWISTON, ID
 LEWISTON-NEZ PERCE
 COUNTY ILS Rwy 26¹²
 RNAV (GPS) Y Rwy 8³
 RNAV (GPS) Y Rwy 12³
 RNAV (GPS) Y Rwy 26³
 RNAV (RNP) Rwy 30⁴
 RNAV (RNP) Z Rwy 8⁴
 RNAV (RNP) Z Rwy 12⁴
 RNAV (RNP) Z Rwy 26⁴
 VOR Rwy 8⁵
 VOR Rwy 26³

¹ILS, Category D, 800-2½.

²NA when control tower closed.

³Category D, 800-2½.

⁴NA when local weather not available.

⁵Categories A, B, 1100-2; Categories C, D,
 1100-3.

LEWISTOWN, MT
 LEWISTOWN MUNI RNAV (GPS) Rwy 7
 VOR Rwy 7

Category D, 800-2½.

LIVINGSTON, MT
 MISSION FIELD VOR/DME-B¹
 VOR-A²

¹Categories A, B, 900-2; Category C, 900-2½;
 Category D, 1000-3.

²Categories A, B, 2200-2; Categories C,D,
 2200-3.

NAME ALTERNATE MINIMUMS

MC CALL, ID

MC CALL MUNI RNAV (GPS) Rwy 16¹
RNAV (GPS) Y Rwy 34²
RNAV (GPS) Z Rwy 34³⁴

¹Category C, 900-2½.

²Categories A, B, 1600-2; Categories C, D, 1600-3.

³NA when local weather not available.

⁴Category C, 900-2½; Category D, 1000-3.

MC MINNVILLE, OR

MC MINNVILLE MUNI ILS or LOC Rwy 22
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22
VOR/DME-B

NA when local weather not available.

Category D 800-2¼.

MEDFORD, OR

ROGUE VALLEY INTL-
MEDFORD ILS or LOC/DME Rwy 14¹²
LOC/DME BC-B²³
RNAV (GPS)-D³
RNAV (GPS) Rwy 14⁴
VOR-A⁵
VOR/DME-C³
VOR/DME Rwy 14⁵

¹ILS, Categories A, B, C, 700-2; Category D, 900-2½. LOC, Category D, 900-2½.

²NA when control tower closed.

³Categories A, B, 2300-2; Categories C, D, 2300-3.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

⁵Categories A, B, 1400-2; Category C, D 1400-3.

MISSOULA, MT

MISSOULA INTL ILS Rwy 11¹
RNAV (GPS) Y Rwy 11²³
RNAV (RNP) Z Rwy 11², 800-2½
VOR/DME or GPS-A, 2000-3
VOR/DME or GPS-B, 2000-3

¹ILS, 1600-6. LOC, NA.

²NA when local weather not available.

³Categories A, B, 1900-2; Categories C, D, 1900-3.

NAME ALTERNATE MINIMUMS

MOSES LAKE, WA

GRANT COUNTY INTL ... ILS or LOC Rwy 32R¹
NDB Rwy 32R²
RNAV (GPS) Rwy 4¹
RNAV (GPS) Rwy 14L¹
RNAV (GPS) Rwy 22¹
VOR Rwy 4²
VOR -1 Rwy 14L²
VOR -3 Rwy 14L²
VOR Rwy 22²
VOR Rwy 32R²

¹NA when local weather not available.

²NA when control tower closed.

NEWCASTLE, WY

MONDELL FIELD VOR or GPS Rwy 31
NA except for operators with approved weather reporting service.
Categories A, B, 900-2; Categories C, D, 900-3.

NORTH BEND, OR

SOUTHWEST OREGON
RGNL ILS or LOC Rwy 4¹
NDB or GPS Rwy 4²
VOR or GPS-A³
VOR/DME or GPS-B⁴
VOR/DME Rwy 4⁴

¹ILS, Categories A, B, 800-2; Category C, 900-2¼, Category D, 1000-3. LOC, Category C, 900-2¼, Category D, 1000-3.

²Category C, 900-2¼; Category D, 1000-3.

³Categories A, B, 1100-2; Categories C, D, 1100-3.

⁴Categories C, D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG RNAV (GPS) Rwy 7
NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL ILS or LOC Rwy 17¹²³
RNAV (GPS) Rwy 17²
RNAV (GPS) Rwy 35²
VOR-A²⁴
VOR/DME Rwy 35²

¹ILS, Categories C, D, 700-2.

²NA when local weather not available.

³NA when control tower closed.

⁴Category D, 800-2¼.

ONTARIO, OR

ONTARIO MUNI RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32

NA when local weather not available.

NAME ALTERNATE MINIMUMS

PASCO, WA

TRI-CITIES ILS or LOC Rwy 21R¹²
 RNAV (GPS) Rwy 3L
 RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 21R
 RNAV (GPS) Rwy 30
 VOR Rwy 21R³
 VOR/DME Rwy 30

NA when local weather not available.

¹NA when control tower closed.

²ILS, Categories A,B,C, 700-2; Category D,
 700-2½. LOC, Category D, 800-2½.

³Category D, 800-2½.

PENDLETON, OR

EASTERN OREGON RGNL AT

PENDLETON ILS or LOC/DME Rwy 25¹
 RNAV (GPS) Rwy 7
 RNAV (GPS) Rwy 11
 RNAV (GPS) Rwy 25
 RNAV (GPS) Rwy 29
 VOR Rwy 7

NA when local weather not available.

¹ILS, NA when control tower closed.

PINEDALE, WY

PINEDALE/RALPH WENZ

FIELD NDB-A¹
 RNAV (GPS) Rwy 11²
 RNAV (GPS) Rwy 29²

NA when local weather not available.

¹Category C, 800-2½; Category D, 800-2½.

²Category D, 800-2½.

POCATELLO, ID

POCATELLO RGNL ILS or LOC Rwy 21¹
 RNAV (GPS) Rwy 3²
 RNAV (GPS) Rwy 21²

¹NA when control zone not in effect.

²NA when local weather not available.

PORT ANGELES, WA

WILLIAM R

FAIRCHILD INTL ILS or LOC Rwy 8
 RNAV (GPS) Rwy 8¹
 RNAV (GPS) Rwy 26

NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D,
 1000-3.

NAME ALTERNATE MINIMUMS

PORTLAND, OR

PORTLAND INTL ILS or LOC Rwy 10L¹
 ILS or LOC Rwy 10R²
 ILS or LOC Rwy 28L³
 ILS or LOC Rwy 28R⁴
 LOC/DME Rwy 21⁵
 RNAV (GPS) Rwy 10L⁵
 RNAV (GPS) Rwy 10R⁵
 RNAV (GPS) Rwy 12⁷
 RNAV (GPS) Rwy 28L⁸
 RNAV (GPS) Rwy 28R⁸
 VOR/DME Rwy 21⁵
 VOR-A⁹
 VOR Rwy 28R⁵

¹ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.

²Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3; Category E, 1100-3.

³ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3; Category E, 1100-3. LOC, Category D, 1000-3; Category E, 1100-3.

⁴ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.

⁵Category D, 1000-3.

⁶Categories A,B,C 800-5; Category D, 1000-5.

⁷NA when local weather not available.

⁸Category D, 1000-3.

⁹Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

PORTLAND-HILLSBORO .. ILS or LOC Rwy 12¹
 RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 30

NA when local weather not available.

¹Categories A, B, 1500-2; Categories C, D, 1500-3.

PORTLAND-TROUTDALE NDB or GPS-A
 Categories A,B, 1100-2; Category C, 1100-3;
 Category D, 1300-3.

PULLMAN/MOSCOW, WA

PULLMAN/MOSCOW

MUNI RNAV (GPS) Rwy 5,800-2½

RAWLINS, WY

RAWLINS MUNI/

HARVEY FIELD RNAV (GPS) Rwy 22¹
 VOR/DME Rwy 22²

¹Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2½.

²Categories A, B, 1000-2; Category C, 1000-2½; Category D, 1000-3.

NAME ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD ILS or LOC Rwy 22¹
VOR/DME Rwy 22²

¹ILS, LOC, Category D, 800-2½; Category E, 800-2½.

²Category A, B, 1000-2; Category C, 1000-2¾; Category D, E, 1000-3.

RENTON, WA

RENTON MUNI NDB Rwy 16¹
RNAV (GPS) Y Rwy 16²
RNAV (GPS) Z Rwy 16³

NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D, 1000-3.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

³Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON
COUNTY RNAV (GPS) Rwy 35
NA when local weather not available.
Category D, 800-2½.

RICHLAND, WA

RICHLAND NDB Rwy 19¹
RNAV (GPS) Rwy 19¹
RNAV (GPS) Rwy 26¹
VOR/DME-A²
VOR Rwy 26¹

¹Category D, 800-2½.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

RIVERTON, WY

RIVERTON RGNL ILS or LOC Rwy 28
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28
VOR Rwy 10
VOR Rwy 28

NA when local weather not available.

ROSEBURG, OR

ROSEBURG RGNL RNAV (GPS)-B
NA when local weather not available.
Categories A, B, 1200-2; Category C, 1200-3;
Category D, 1400-3.

SALEM, OR

MCNARY FIELD ILS or LOC Rwy 31¹²
LOC/DME Rwy 31³
RNAV (GPS) Rwy 31¹³

¹NA when local weather not available.

²ILS, Categories A, B, 800-2; Category C, 800-2¾; Category D, 800-2½. LOC, Category C, 800-2¾; Category D, 800-2½.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL
AIRPARK VOR/DME or GPS-A
Category B, 900-2; Category C, 1000-2¾;
Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY
INTL ILS Rwy 13R¹
ILS Rwy 31L²
LOC/DME Rwy 13R³
RNAV (GPS) Y Rwy 13R⁴
RNAV (RNP) Z Rwy 13R⁵

¹ILS, Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

²Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

³Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

⁴Category B, 900-2; Category C, 900-2¾; Category D, 1000-3.

⁵Categories A, B, C, D, 800-2½.

SHERIDAN, WY

SHERIDAN
COUNTY ILS or LOC/DME Rwy 32
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.
Category D, 800-2½.

SIDNEY, MT

SIDNEY-RICHLAND MUNI NDB Rwy 1¹
NDB Rwy 19²
RNAV (GPS) Rwy 1³
RNAV (GPS) Rwy 19³

NA when local weather not available.

¹Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.

²Categories A, B, 1000-2; Category C, 1000-2¾; Category D, 1000-3.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SPOKANE, WA

FELTS FIELD ILS/DME Rwy 21R¹
RNAV (GPS)-A²
RNAV (GPS) Rwy 3L²
VOR Rwy 3L^{3,4}

- ¹Categories A,B, 1000-2; Category C, 1000-2½.
²Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.
³Categories A, B, 1000-2; Categories C, D, 1000-3.
⁴NA when local weather not available.

SPOKANE INTL ILS or LOC Rwy 3¹
ILS or LOC/DME Rwy 21¹
RNAV (GPS) Rwy 3²
VOR Rwy 3³

- ¹ILS, Category D, 700-2.
²Category D, 800-2½.
³Category E, 800-2½.

TACOMA, WA

TACOMA NARROWS ILS Rwy 17¹
NDB Rwy 35¹
RNAV (GPS) Rwy 17^{1,2}
RNAV (GPS) Rwy 35^{2,3}

- ¹NA when control tower closed.
²Category D, 800-2½.
³NA when local weather not available.

THE DALLES, OR

COLUMBIA GEORGE RGNL/
THE DALLES MUNI RNAV (GPS)-A
Categories A,B, 1100-2; Category C, 1100-3;
Category D, 1200-3.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY
RGNL ILS or LOC Rwy 25¹
NDB Rwy 25
RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25
VOR Rwy 7²

- NA when local weather not available.
¹ILS, Category D, 700-2; Category E, 900-3.
LOC, Category E, 900-3.
²Category C, 800-2½; Category D, 800-2½.

NAME ALTERNATE MINIMUMS

WALLA WALLA, WA

WALLA WALLA RGNL ILS or LOC Rwy 20¹
NDB Rwy 20, 1000-3
RNAV (GPS) Rwy 2^{2,3}
RNAV (GPS) Rwy 16²
RNAV (GPS) Rwy 20²
VOR/DME Rwy 2²

- ¹ILS, LOC, Categories A,B, 1100-2; Categories C, D, 1100-3.
²Category D, 800-2½.
³NA when local weather not available.

WENATCHEE, WA

PANGBORN
MEMORIAL ILS Y Rwy 12, 1300-4
VOR/DME-C^{1,2}
VOR/DME-A³

- ¹NA when local weather not available.
²Categories A, B, 1500-2; Categories C, D, 1500-3.
³Categories A, B, 2000-2; Categories C, D, 2000-3.

WOLF POINT, MT

L.M. CLAYTON RNAV (GPS) Rwy 11
RNAV (GPS) Rwy 29

NA when local weather not available.

WORLAND, WY

WORLAND MUNI VOR or GPS Rwy 16
Categories C,D, 800-2½.

YAKIMA, WA

YAKIMA AIR TERMINAL/
MCALLISTER FIELD ILS Y Rwy 27^{1,2}
ILS Z Rwy 27^{1,3}
LOC/DME BC-B^{1,4}
RNAV (GPS) Y Rwy 27⁵
RNAV (GPS) Z Rwy 27⁴
VOR/DME or TACAN Rwy 27⁶
VOR-A⁷

- ¹NA when control tower closed.
²ILS, Categories A, B, 600-2½; Category C, 700-2½; Category D, 800-2½.
³Category C, 700-2; Category D, 800-2½
⁴Category D, 800-2½.
⁵Category C, 800-2½; Category D, 800-2½.
⁶Categories A, B, 1100-2; Categories C, D, 1100-3.
⁷Category C, 800-2½; Category D, 800-2½.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16**, Use LUNDI DEPARTURE. **Rwy 34**, use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16**, turn right. **Rwy 34**, turn left. All aircraft climb direct CVO VOR/DME and continue climb in CVO VOR/DME holding pattern, (E, right turns, 261° inbound) to cross CVO VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, std. w/min. climb of 417' per NM to 9000, or 2800-3 for climb in visual conditions. **Rwy 17**, std. w/min. climb of 321' per NM to 10200, or 2800-3 for climb in visual conditions. **Rwy 22**, NA - obstacles. **Rwy 35**, std. w/min. climb of 369' per NM to 9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 35**, climbing right turn to 10200 via heading 130° and CPN VOR/DME R-340 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NAME TAKE-OFF MINIMUMS

BOWMAN FIELD(CON'T)

Rwy 17, climbing left turn to 10200 via heading 100° and CPN VOR/DME R-335 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NOTE: **Rwy 17**, multiple trees beginning 865' from departure end of runway, 243' left of centerline, up to 70' AGL/5097' MSL. Rod on hangar 570' from departure end of runway, 278' left of centerline, 54' AGL/5054' MSL. Multiple trees beginning 787' from departure end of runway, 165' right of centerline, up to 70' AGL/5098' MSL. Multiple transmission lines beginning 4602' from departure end of runway, 1664' right of centerline, 80' AGL/5159' MSL. **Rwy 35**, multiple transmission lines beginning 2242' from departure end of runway, 964' left of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA - Obstacles. DEPARTURE PROCEDURE: Use JATTS DEPARTURE.

ARLINGTON, WA

ARLINGTON MUNI

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwy 16, climb direct to WATON LOM. **Rwys 29, 34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR

ASTORIA RGNL

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8, 31**, turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA

AUBURN MUNI

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR

AURORA STATE

DEPARTURE PROCEDURE: **Rwy 17**, turn right,

thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL.

Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL. Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway, 163' left of centerline, up to 138' AGL/329' MSL.

Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT

BAKER MUNI

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY, OR

BAKER CITY MUNI

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

Rwy 13, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17, NA. Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C, D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8, 13**, turn left.

Rwys 26, 31, 35, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA

BELLINGHAM INTL

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34**, climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16**, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL.

Rwy 34, lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. Multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR

BEND MUNI (BDN)

AMDT 4 09183 (FAA)

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY

MILEY MEMORIAL FIELD

TAKE-OFF MINIMUMS: **Rwys 8, 26**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 8400 via BPI R-124. **Rwy 31**, climb to 10800 via BPI R-320 thence all aircraft climb on course.

BILLINGS, MT

BILLINGS LOGAN INTL (BIL)

AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R**, NA- Obstacles.DEPARTURE PROCEDURE: **Rwy 10L**, Climb heading 098° to 4600 before turning right.

NOTE: **Rwy 10L**, fence 466' from departure end of runway, 535' right of centerline, 11' AGL/3511' MSL, cars on road, beginning from 624' from departure end of runway, 427' right of centerline, 15' AGL/3523' MSL, ground beginning 21' from departure end of runway, 499' right of centerline, 0' AGL/3505' MSL. **Rwy 25**, airport security fence, abeam departure end of runway, 500' left of centerline, 11' AGL/3672' MSL to 1200' from departure end of runway, abeam rwy centerline, 11' AGL/3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or higher assigned altitude) direct IDA VOR/DME, before proceeding on course. **Rwy 19**, climb to 7000 (or higher assigned altitude) direct PIH VORTAC, before proceeding on course.

BOISE, ID

BOISE AIR TERMINAL / GOWEN FIELD (BOI)

AMDT 6 10042 (FAA)

DEPARTURE PROCEDURE: Use GOWEN DEPARTURE.

BOZEMAN, MT

GALLATIN FIELD (BZN)

AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.

DEPARTURE PROCEDURE: **Rwys 12, 30**, use BOZEMAN DEPARTURE.

BREMERTON, WA

BREMERTON NATIONAL (PWT)

AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. w/min. climb of 410' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 1**, Climbing right turn to 6000 direct CAN NDB, Thence... **Rwy 19**, Climb to 6000 direct CAN NDB, thence...

...Continue climb-in-hold (S, LT, 013° inbound) to 6000 before proceeding on course.

NOTES: **Rwy 1**, Multiple bushes 380' from departure end of runway, 522' left of centerline, up to 17' AGL/456' MSL, multiple trees and poles beginning 1210' from departure end of runway, 622' left of centerline, up to 100' AGL/561' MSL, multiple trees and bushes 1012' from departure end of runway, 708' right of centerline, up to 100' AGL/495' MSL. **Rwy 19**, Multiple trees beginning 176' from departure end of runway, 337' left of centerline, up to 100' AGL/514' MSL, multiple trees beginning 371' from departure end of runway, 277' right of centerline, up to 100' AGL/548' MSL.

BUFFALO, WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:

Rwys 13, 31, 2400-2 or std. with a min. climb of 300' per NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std. with a min climb of 300' per NM to 6000.

DEPARTURE PROCEDURE: Northbound aircraft:

Rwy 13, turn left. **Rwy 31**, climb straight ahead.

All aircraft proceed via SHR R-139 to SHR VORTAC.

Southbound aircraft: **Rwy 13**, climb straight ahead.

Rwy 31, turn right. **All aircraft** proceed via CZI R-319 to CZI VOR/DME.

BURLEY, ID

BURLEY MUNI (BYI)

AMDT 5 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 24**, 300-1½ or std. w/min. climb of 428' per NM to 4500.

DEPARTURE PROCEDURE: **Rwy 2**, climbing left turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight. **Rwy 6**, climbing left turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight. **Rwy 20**, climbing right turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight. **Rwy 24**, climbing right turn direct BYI VOR/DME, continue climb in BYI VOR/DME holding pattern (hold Northwest right turns, 125° inbound) to cross BYI VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 2**, obstruction light on bridge 252' from DER, 513' left of centerline, 57' AGL/4195' MSL. Trees beginning 686' from DER, 201' right of centerline, up to 35' AGL/4184' MSL. Tree 694' from DER, 375' left of centerline, 29' AGL/4178' MSL. Obstruction light on building 736' from DER, 188' left of centerline, 11' AGL/4161' MSL. Tower 803' from DER, 590' left of centerline, 55' AGL/4204' MSL. Vehicles on road beginning 857' from DER, 1' right of centerline, up to 17' AGL/4168' MSL. Poles beginning 1226' from DER, 549' left of centerline, up to 72' AGL/4222' MSL. Building vent 1240' from DER, 164' left of centerline, 27' AGL/4177' MSL. Stack 2206' from DER, 856' right of centerline, 86' AGL/4236' MSL. Stack 2573' from DER, 614' left of centerline, 86' AGL/4236' MSL. Elevators beginning 3980' from DER, 131' right of centerline, up to 133' AGL/4283' MSL. **Rwy 6**, trees beginning 46' from DER, 172' right of centerline, up to 14' AGL/4163' MSL. Rising terrain beginning 49' from DER, 326' right of centerline, up to 4149' MSL. Bush 150' from DER, 103' right of centerline, 5' AGL/4147' MSL. Antenna 586' from DER, 398' left of centerline, 15' AGL/4165' MSL. Obstruction light on bridge 1061' from DER, 80' right of centerline, 39' AGL/4179' MSL.

BURLEY MUNI (BYI) (CON'T)

Rwy 20, obstruction light pole 42' from DER, 124' left of centerline, 16' AGL/4170' MSL. Railroad beginning 65' from DER, 4' left of centerline, up to 23' AGL/4177' MSL. Sign 181' from DER, 121' right of centerline, 18' AGL/4172' MSL. Vehicles on road 162' from DER, 2' left of centerline, 17' AGL/4169' MSL. Vehicles on road beginning 335' from DER 348' right of centerline up to 17' AGL/4171' MSL. Pole 446' from DER, 210' right of centerline, 26' AGL/4180' MSL. Antenna 523' from DER, 337' right of centerline, 63' AGL/4217' MSL. Tree 586' from DER, 213' right of centerline, 28' AGL/4182' MSL. Trees beginning 2014' from DER, 339' left of centerline, up to 96' AGL/4251' MSL.

Rwy 24, vehicles on road beginning 25' from DER, 9' left of centerline, up to 15' AGL/4169' MSL. Fence 58' from DER, 8' left of centerline, 4' AGL/4154' MSL. Rising terrain beginning 69' from DER, 201' right of centerline, up to 4154' MSL. Railroad 152' from DER, 6' left of centerline, 23' AGL/4176' MSL. Trees beginning 427' from DER, 101' right of centerline, up to 69' AGL/4223' MSL. Vehicles on road beginning 509' from DER, 586' right of centerline, up to 15' AGL/4169' MSL. Railroad beginning 568' from DER, 288' right of centerline, up to 23' AGL/4177' MSL. Pole 735' from DER, 185' left of centerline, 18' AGL/4172' MSL. Light standard 824' from DER, 58' right of centerline, 23' AGL/4177' MSL. Antenna 1630' from DER, 112' left of centerline, 58' AGL/4212' MSL. Tower 2766' from DER, 175' left of centerline, 123' AGL/4282' MSL. Tower 3570' from DER, 158' right of centerline, 157' AGL/4312' MSL. Obstruction light on elevators beginning 3115' from DER, 164' left of centerline, up to 184' AGL/4344' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)
ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or std. with a min. climb of 245' per NM to 2300. **Rwy 22**, 1300-2 or std. with a min. climb of 210' per NM to 1800.

DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right heading 280°. **Rwy 28**, climb runway heading.

All aircraft climb to 2500 then turn right direct BVS NDB to cross BVS at or above 4500. Aircraft departing on BVS R-145 CWR-330 climb on course. All others continue climbing in BVS holding pattern (NW, right turns 113° inbound) to cross BVS at or above 6800 before proceeding on course.

NOTE: **Rwy 4**, tree 2581' from departure end of runway, 426' left of centerline, 100' AGL/212' MSL. Light pole 1489' from departure end of runway, 136' left of centerline 35' AGL/137' MSL. Bush 126' from departure end of runway, 430' right of centerline, 20' AGL/101' MSL. Building 2925' from departure end of runway, 130' left of centerline, 60' AGL/180' MSL.

BURNS, OR

BURNS MUNI

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30**, climbing left turn, thence...
...All aircraft departing on ILR R-072 CWR-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21**, pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT

BERT MOONEY

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15**, std. w/ min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29**, std. w/ min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 29**, climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 33**, climb direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence...

...climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15**, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL.

Rwy 29, multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6379' MSL. **Rwy 33**, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID

CALDWELL INDUSTRIAL

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30**, climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12**, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY

CASPER/NATRONA COUNTY INTL (CPR)
AMDT 3A 09155 (FAA)

DEPARTURE PROCEDURE: **Rwys 3,8,12**, turn left.

All other runways, turn right. **All aircraft** climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS, WA

CHEHALIS-CENTRALIA

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLM R-151 to OLM VORTAC before proceeding on course. **Rwy 34**, climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON FIELD

NOTE: **Rwy 13**, multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31**, multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

CODY, WY

YELLOWSTONE RGNL (COD)

AMDT 4 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, std. with a min. climb of 400' per NM to 8000' or 4200-3 for climb in visual conditions. **Rwy 22**, std. with a min. climb of 385' per NM to 7400' or 4200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to 5900, then climbing left turn via COD R-171 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight. **Rwy 22**, climb heading 218° to 6600, then climbing left turn via COD R-180 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 4**, trees beginning 100' from DER, 262' right of centerline, up to 79' AGL/5199' MSL. Rising terrain beginning 1723' from DER, 304' right of centerline, up to 5146' MSL. **Rwy 22**, poles beginning 1 NM from DER, 406' right of centerline, up to 60' AGL/5332' MSL. Rising terrain beginning 1 NM from DER, 109' right of centerline, up to 6235' MSL. Rising terrain beginning 5074' from DER, 131' left of centerline, up to 5428' MSL.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY BOYINGTON FIELD
(COE)

AMDT 9 10042 (FAA)

DEPARTURE PROCEDURE: use COEUR D'ALENE DEPARTURE.

COLSTRIP, MT

COLSTRIP (M46)

AMDT 2 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6** use CISPU (RNAV)

DEPARTURE: **Rwy 24**, use CONUK (RNAV)
DEPARTURE.

CONRAD, MT

CONRAD

DEPARTURE PROCEDURE: **Rwy 24**, climb runway heading to 4300, then continue climb on course.

CORVALLIS, OR

CORVALLIS MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in

visual conditions. **Rwy 27**, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 9, 17**, climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

Rwys 27, 35, climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up

to 153' AGL/383' MSL. Multiple trees and railroad beginning 670' from departure end of runway, 5' right of

centerline, up to 135' AGL/380' MSL. **Rwy 27**, obstruction light on glideslope 409' from departure end

of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.

COWLEY/LOVELL/BYRON, WY

NORTH BIG HORN COUNTY

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

DEER PARK, WA

DEER PARK (DEW)

AMDT 1 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, 300-1½ or std. with a min. climb of 455' per NM to 2500.

DEPARTURE PROCEDURE: **Rwy 4**, climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 16**, climb heading 164° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 22**, climbing left turn heading 155° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 34**, climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC.

NOTE: **Rwy 4**, aircraft 261' from DER, 511' left of centerline, up to 21' AGL/2210' MSL. Trees beginning 1809' from DER, 413' left of centerline, up to 109' AGL/2299' MSL. Aircraft 104' from DER, 186' right of centerline, up to 21' AGL/2200' MSL. Trees beginning 1667' from DER, 373' right of centerline, up to 116' AGL/2319' MSL. **Rwy 16**, trees beginning 31' from DER, 455' left of centerline, up to 109' AGL/2279' MSL. Trees beginning 2587' from DER, 621' right of centerline, up to 104' AGL/2264' MSL. **Rwy 22**, trees beginning 1461' from DER, 211' right of centerline, up to 90' AGL/2270' MSL. **Rwy 34**, aircraft 23' from DER, 218' left of centerline, up to 21' AGL/2230' MSL. Trees beginning 2678' from DER, 18' left of centerline, up to 165' AGL/2375' MSL. Vehicles beginning 74' from DER, 339' right of centerline, up to 15' AGL/2234' MSL. Trees beginning 2219' from DER, 260' right of centerline, up to 100' AGL/2382' MSL.

DILLON, MT

DILLON

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwestbound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

DOUGLAS, WY

CONVERSE COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23**, 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11**, climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23**, climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29**, climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CW R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CW R-199 9600; R-200 CW R-252 8000.

NOTE: **Rwy 5**, trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID

DRIGGS-REED MEMORIAL (DIJ)

AMDT 2 08157 (FAA)

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA

ORCAS ISLAND (ORS)

AMDT 1 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, NA-Terrain. **Rwy 34**, 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34**, climbing right turn to 2000 to intercept HUH VORTAC R-210 to HUH VORTAC, then climb-in-hold (hold South, Left turns, 352° inbound) to cross HUH VORTAC at or above 3800 before proceeding on course.

NOTE: **Rwy 34**, trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENBURG, WA

BOWERS FIELD

TAKE-OFF MINIMUMS: **Rwys 7, 11**, 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25**, 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29**, 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29**, climbing right turn direct ELN VORTAC. **Rwys 11, 25**, climbing left turn direct ELN VORTAC. **All aircraft**, continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA

EPHRATA MUNI (EPH)

AMDT 3 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 027° to 2300 before proceeding on course. **Rwy 11**, climb heading 112° to 2200 before proceeding on course. **Rwy 21**, climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn... **Rwys 34L, 34R**, climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD

DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME. **Rwy 23**, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.

All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence... **Rwys 29, 34L/R**, climbing left turn, thence...

...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.

NOTE: Rwy 11, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017

DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA R-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.

TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT

FORT BENTON

TAKE-OFF MINIMUMS: **Rwys 5, 23**, std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 5, 23**, for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY

FORT BRIDGER

DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing; FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA

FRIDAY HARBOR

TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.

DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC)

AMDT 4 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21**, 600-3 or std. w/ min. climb of 425' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21**, climb via heading 206° to 5200, before proceeding on course.

NOTE: Rwy 3, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16**, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21**, fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30' AGL/4729' MSL. **Rwy 34**, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449' MSL. Vehicle on road 1610' from DER. 419' left of centerline, 15' AGL/4380' MSL.

GOODING, ID

GOODING MUNI (GNG)

ORIG 08269 (FAA)

DEPARTURE PROCEDURE: **Rwy 7**, climb heading 068° to 5000 before turning left. **Rwy 25**, climb heading 233° to 5600 before turning right.

NOTE: Rwy 7, rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25**, vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 10 - Obstacles.DEPARTURE PROCEDURE: **Rwy 25**, Use MELLR

DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.**GRAY AAF (KGRF)**

FORT LEWIS, WA AMDT 2, 10098

Rwy 15, Standard**Rwy 33**, 300-1*

* Or standard with minimum climb of 430/NM to 600.

DEPARTURE PROCEDURE: **Rwy 15**, Climb heading 147° to 700 then climbing left turn direct GRF NDB.**Rwy 33**, Climb direct GRF NDB. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GRF NDB climb on course. All others continue climb in GRF NDB holding pattern (hold NW, RT, 147° inbound) to cross GRF NDB at or above: 071° CW 134° bearing from GRF NDB, 8500; 261° CW 329° bearing from GRF NDB, 1500.TAKE-OFF OBSTACLES: **Rwy 15**, Tree 100' AGL/439' MSL, 1848' from DER, 430' right of centerline. **Rwy 33**, Tree 100' AGL/479' MSL, 3465' from DER, 1338' left of centerline.**GREAT FALLS, MT**

GREAT FALLS INTL

NOTE: **Rwy 7**, obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21**, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25**, windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.**GREYBULL, WY**

SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1 or std. w/min. climb of 260' per NM to 4200.DEPARTURE PROCEDURE: **All runways**, for departures on Gey bearings 320° CW 150°, climb in Gey NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures Gey bearings 150° CW 320° climb on course.NOTE: **Rwy 25**, bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.**GUERNSEY, WY**

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°. **All aircraft** continue on course.**HAILEY, ID**

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3 w/min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31**, NA-obstacles.DEPARTURE PROCEDURE: **Rwy 13**, Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.NOTE: **Rwy 13**, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.**HAMILTON, MT**

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE, MT

HAVRE CITY-COUNTY (HVR)

AMDT 3 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, 300-1½ or std. w/min. climb of 217' per NM to 3300.DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 3300 then climbing left turn to 8000 direct HVR VOR/DME thence...**Rwy 8**, climb heading 077° to 3300 then climbing left turn to 8000 via HVR R-025 to HVR VOR/DME thence...**Rwy 21**, climb heading 212° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...**Rwy 26**, climb heading 257° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...

...continue climb in hold in HVR VOR/DME holding pattern (hold west, right turns, 094° inbound) to cross HVR VOR/DME at or above 8000 before proceeding on course.

NOTE: **Rwy 3**, pole 2682' from DER, 1044' left of centerline, 21' AGL/2680' MSL. **Rwy 8**, obstruction light on windsock 59' from DER, 224' left of centerline, 9' AGL/2588' MSL. Tree 1192' from DER, 752' left of centerline, 25' AGL/2610' MSL. Tank 1.3 NM from DER, 2287' left of centerline, 57' AGL/2797' MSL. **Rwy 26**, light on windsock, 50' from DER, 225' right of centerline, 9' AGL/2589' MSL. Trees beginning 1617' from DER, 650' right of centerline, 25' AGL/2659' MSL.

HELENA, MT

HELENA RGNL (HLN)
ADMT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9**, std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 23**, 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16, 34, NA**.
DEPARTURE PROCEDURE: **Rwys 5, 9**, climbing left turn heading 270°. **Rwys 23, 27**, climbing right turn heading 020°. **All Aircraft**: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5**, ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23**, pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27**, building 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.
DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 110°. **Rwy 24**, climb runway heading.
All aircraft climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)
ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 450' per NM to 6300, or 500-2½ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31**, climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13**, road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31**, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL (IDA)
AMDT 4 09351 (FAA)

DEPARTURE PROCEDURE: **All aircraft** departing IDA R-160 CW R-040 climb on course. **All others** climb direct IDA VOR/DME. Continue climb in IDA holding pattern (South, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500 before proceeding on course.

NOTE: **Rwy 2**, pole 1039' from DER, 758' left of centerline, 42' AGL/4762' MSL. **Rwy 17**, trees, flagpole, building, light and vent on buildings, and vehicle on road beginning 29' from DER, 10' right of centerline, up to 84' AGL/4820' MSL. Trees and vent on building beginning 569' from DER, 22' left of centerline, up to 35' AGL/4760' MSL. Trees, antenna, and light poles beginning 1853' from DER, 26' right of centerline, up to 121' AGL/4851' MSL. **Rwy 35**, trees and railroad beginning 410' from DER, 503' right of centerline, up to 49' AGL/4769' MSL. Tree 1034' from DER, 715' left of centerline, 42' AGL/4762' MSL.

JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



JEROME, ID

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 500-1½ or std. w/ min. climb of 435' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.

NOTE: **Rwy 9**, bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL. **Rwy 27**, fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.

JOHN DAY, OR

GRANT COUNTY RGNL/OGILVIE FIELD
(GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, NA, Terrain.

DEPARTURE PROCEDURE: **Rwy 27**, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 27**, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.

KALISPELL, MT

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT
DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL (KLS)

AMDT 3 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, NA, terrain. **Rwy 30**, std. with a min. climb of 370' per NM to 1900 or 1900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 30**, climb heading 303° to 1900 then climbing right turn to 3900 direct LSO NDB. Continue climb in LSO NDB holding pattern (North, right turns, 175° inbound) to cross LSO NDB at or above 3900, then via BTG R-310 to BTG VORTAC. For climb in visual conditions: cross Southwest Washington Rgnl at or above 1800, then via BTG R-309 to BTG VORTAC.

NOTE: **Rwy 30**, light pole 22' from DER, 301' right of centerline, 30' AGL/49' MSL. Windssock 235' from DER, 348' left of centerline, 30' AGL/49' MSL. Rotating beacon 502' from DER, 425' left of centerline, 50' AGL/70' MSL. Multiple trees beginning 213' from DER, 530' right to 747' left of centerline, up to 136' AGL/155' MSL. Pole 964' from DER, 44' right of centerline, 30' AGL/50' MSL.

KEMMERER, WY

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA -Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/DME before proceeding on course. **Rwy 34**, climb via heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/DME before proceeding on course.

KLAMATH FALLS, OR

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400. **Rwy 32**, 2000-3 or std. with a min. climb of 320' per NM to 6300.

DEPARTURE PROCEDURE: **Rwys 14, 25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.

LA GRANDE, OR

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800. **Rwy 30**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34**, 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16**, 2000-3 or std. with a min. climb of 500' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 12, 16**, climbing left turn direct LGD NDB, thence; **Rwys 30, 34**, climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.



LAKEVIEW, OR

LAKE COUNTY

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKV R-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKV R-148 then via LKV R-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY

LARAMIE RGNL

DEPARTURE PROCEDURE: **Rwy 3**, turn left.

Rwys 12, 21, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.

LAUREL, MT

LAUREL MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32**, NA.

DEPARTURE PROCEDURE: **Rwy 22**, turn left.

All aircraft climb direct BIL VORTAC.

LEWISTON, ID

LEWISTON-NEZ PERCE COUNTY

DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, turn left direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN, MT

LEWISTOWN MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7, 12**, 900-2 or std. with a min. climb of 220' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 2, 30** turn left.

Rwys 7, 12, 20, turn right. **Rwy 25**, climb runway heading. **All aircraft** climb direct LWT VORTAC.

Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR

LEXINGTON

TAKE-OFF MINIMUMS: **Rwy 26**, std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8**, std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 8, 26**, for climb in visual conditions: cross Lexington Airport at or above 3600.

NOTES: **Rwy 8**, trees 1.42 NM from departure end of runway, 2386' left of centerline, 100' AGL/2159' MSL. Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT

LIBBY

TAKE-OFF MINIMUMS: **Rwy 33**, not authorized.

Rwy 15, use EYESE RNAV DEPARTURE.

LIVINGSTON, MT

MISSION FIELD (LVM)

AMDT 3 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA-Environmental.

DEPARTURE PROCEDURE: **Rwys 4, 22**, use LIVINGSTON DEPARTURE.

MADRAS, OR

MADRAS MUNI (S33)

AMDT 1 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwys 16, 22**, std. with a min. climb of 298' per NM to 3900 or 1300-3 for climb in visual conditions

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing left turn heading 210° to intercept DSD R-348 to DSD VORTAC, thence... **Rwy 16**, climbing right turn heading 210° to intercept DSD R-348 to DSD VORTAC, thence..., or for climb in visual conditions: cross Madras Muni airport at or above 3600 MSL, then proceed on DSD R-356 to DSD VORTAC, thence... **Rwy 22**, climb heading 216° to intercept DSD R-348 to DSD VORTAC, thence..., or for climb in visual conditions: cross Madras Muni airport at or above 3600 MSL, then proceed on DSD R-356 to DSD VORTAC, thence...

...continue climb-in-hold (hold North, right turns, 168° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 4**, vehicle on road beginning 7' from DER, 268' left of centerline, up to 15' AGL/2444' MSL. Airplane on tarmac 60' from DER, 252' right of centerline, 40' AGL/2469' MSL. Bush 383' from DER, 483' right of centerline, 19' AGL/2439' MSL. Vehicle on road 742' from DER, 112' right of centerline, up to 15' AGL/2447' MSL. **Rwy 16**, bushes beginning 196' from DER, 151' left of centerline, up to 14' AGL/2444' MSL. Airplane on tarmac 1357' from DER, 280' right of centerline 40' AGL/2479' MSL. **Rwy 34**, bushes beginning 92' from DER, 116' right of centerline, up to 17' AGL/2437' MSL. Airplane on tarmac 1396' from DER, 375' left of centerline, 40' AGL/2469' MSL.

MC CALL, ID

MC CALL MUNI (MYL)

AMDT 2 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL DEPARTURE.

MC CHORD FIELD (KTCM)

TACOMA, WA 10154

DEPARTURE PROCEDURE: **Rwy 16**, Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34**, Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.

TAKEOFF OBSTACLES: **Rwy 16**, Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34**, Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

MC MINNVILLE, OR

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1¼ or std. w/min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17**, std. w/min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22**, std. w/min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35**, climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17**, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22**, multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35**, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277' MSL.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Obstacles.

Rwy 14, std. w/min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32**, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29**, use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R**, antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL.

Rwy 18, pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windsock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L**, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12,30, 6700-3*

* Or standard with minimum climb of 270/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28**, 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct STI NDB. **Rwy 28**, climbing right turn direct STI NDB. All aircraft departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course. **Rwy 29**, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11**, 70' AGL tree, 1225' from departure end of runway, 90' right of centerline.

NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5,17,23,35**, NA. **Rwy 13**, 200-1 or std. with a min. climb of 275' per NM to 4400. **Rwy 31**, 300-1 or std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn. All aircraft climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13**, fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31**, multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, NA. **Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2**, NA. **Rwy 16**, turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTH BEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 5 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, std. with a min. climb of 475' per NM to 1200 or 900-3 with a min. climb of 300' per NM to 900 or 1600-2½ for climb in visual conditions. **Rwy 13**, 400-2½ with a min. climb of 250' per NM to 2500 or 1600-2½ for climb in visual conditions. **Rwy 31**, 300-1½ or std. with a min. climb of 280' per NM to 300.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 043° to intercept OTH VORTAC R-337 northwest bound to 1800 before proceeding on course, or for climb in visual conditions cross Southwest Oregon Rgnl airport at or above 1500 before proceeding on course. **Rwy 13**, climb heading 132° to 1300 before proceeding on course, or for climb in visual conditions cross Southwest Oregon Rgnl airport at or above 1500 before proceeding on course. **Rwy 22**, climb heading 223° to 700 before proceeding on course. **Rwy 31**, climb heading 312° to 800 before proceeding on course.

NOTE: **Rwy 4**, Obstruction light on antenna 383' from DER, 207' right of centerline, 22' AGL/35' MSL. Ship 1000' from DER, on centerline, up to 140' MSL. Obstruction lights on bridge beginning 1886' from DER, 621' left of centerline, up to 93' AGL/93' MSL. Bridge beginning 4728' from DER, 580' right of centerline, 265' AGL/265' MSL. Obstruction lights on bridge beginning 4741' from DER, 948' right of centerline, up to 268' AGL/268' MSL. Transmission tower 5031' from DER, 677' right of centerline, 213' AGL/216' MSL. Trees beginning 1.2 NM from DER, 409' left of centerline, up to 150' AGL/549' MSL. Trees beginning 1.5 NM from DER, 1396' right of centerline, up to 150' AGL/629' MSL. Buildings beginning 1.7 NM from DER, 776' left of centerline, up to 73' AGL/393' MSL. **Rwy 13**, bushes beginning 38' from DER, 175' left of centerline, up to 16' AGL/33' MSL. Vehicle on road, 193' from DER, 237' left of centerline, up to 15' AGL/30' MSL. Bush 193' from DER, 145' right of centerline, up to 20' AGL/37' MSL. Trees beginning 346' from DER, 17' right of centerline, up to 150' AGL/349' MSL. Buildings beginning 504' from DER, 243' right of centerline, up to 86' AGL/106' MSL. Trees beginning 628' from DER, 6' left of centerline, up to 150' AGL/298' MSL. Antenna on building 712' from DER, 554' right of centerline, up to 51' AGL/68' MSL. Poles beginning 880' from DER, 13' right of centerline, up to 136' AGL/236' MSL. Spire 3467' from DER, 1122' left of centerline, 55' AGL/243' MSL. Pole 1.0 NM from DER, 159' left of centerline, up to 121' AGL/221' MSL. **Rwy 22**, ship 4050' from DER, on centerline, up to 140' MSL. **Rwy 31**, ship 1000' from DER, on centerline, up to 140' MSL. Trees beginning 5037' from DER, 15' left of centerline, up to 92' AGL/232' MSL. Trees beginning 5985' from DER, 1419' right of centerline, up to 108' AGL/188' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 300-1
DEPARTURE PROCEDURE: **Rwy 7**, climb via heading
071° to 2000, then climbing right turn direct CVV
VOR/DME. Continue climb on course. **Rwy 25**, climb
via heading 251° to 2100, then climbing left turn direct
CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7**, multiple trees beginning 1167' from DER,
212' left of centerline, up to 80' AGL/319' MSL. Multiple
trees beginning 664' from DER, 208' right of centerline,
up to 80' AGL/299' MSL. Fence 612' from DER, right
and left of centerline, 10' AGL/229' MSL. Multiple
bushes beginning 240' from DER, 64' left of centerline,
up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from
DER, left and right of centerline, up to 15' AGL/174'
MSL. Multiple trees beginning 2271' from DER, right
and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a
min. climb of 706' per NM to 600, or 2200-3 for climb in
visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading
085° to 1000 then climbing left turn direct OLM
VORTAC, thence... **Rwy 17**, climb heading 172° to 1200
then climbing right turn direct OLM VORTAC, thence...
...or climb in visual conditions to cross OLM VORTAC at
or above 2300, thence... **Rwys 26, 35**, climbing right
turn direct OLM VORTAC, thence...

...continue climb in OLM VORTAC holding pattern
(south, right turn, 356° inbound) to cross OLM
VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, multiple trees beginning 880' from DER,
214' left of centerline, up to 100' AGL/343' MSL.

Multiple trees beginning 1636' from DER, 131' right of
centerline, up to 100' AGL/320' MSL. **Rwy 17**, multiple
trees beginning 1008' from DER, 24' left of centerline,
up to 100' AGL/490' MSL. Multiple trees beginning 752'
from DER, 3' right of centerline, up to 100' AGL/370'
MSL. **Rwy 26**, multiple trees and WSK on building
beginning 475' from DER, 595' left of centerline, up to
100' AGL/330' MSL. Multiple trees beginning 338' from
DER, 339' right of centerline, up to 100' AGL/309' MSL.
Rwy 35, multiple trees beginning 2176' from DER, 198'
left of centerline, up to 100' AGL/313' MSL. Multiple
trees and field light on hangar beginning 657' from
DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a
min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG
RNAV DEPARTURE. **Rwy 35**, NA.

ONTARIO, OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on
a heading between 010° CW to 141° from departure end
of runway or minimum climb of 280' per NM to 9600 for
all other courses.

NOTE: **Rwy 14**, multiple trees, poles, and buildings
beginning 90' from departure end of runway, 157' right
of centerline up to 120' AGL/2314' MSL. Multiple trees,
poles, and buildings beginning 502' from departure end
of runway, 506' left of centerline up to 120' AGL/2314'
MSL. **Rwy 32**, multiple trees, poles, and buildings
beginning 340' from departure end of runway, 405' left of
centerline up to 100' AGL/2458' MSL. Multiple trees,
poles, and buildings beginning 2' from departure end of
runway, 472' right of centerline up to 100' AGL/2431'
MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb
runway heading to 1000, thence... **Rwy 12**, turn left. All
others turn right. **All aircraft** climb direct PSC VOR/
DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON
(PDT)

AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34**, climbing
left turn direct PDT VORTAC, thence...

Rwys 11, 16, climbing right turn direct PDT VORTAC,
thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern
(West, left turn, 073° inbound) to cross PDT VORTAC
at or above MEA before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 232' from DER,
348' right of centerline, up to 100' AGL/1579' MSL.

Rwy 25, multiple antennas and terrain beginning 203'
from DER, 259' left of centerline, up to 13' AGL/1512'
MSL. **Rwy 29**, terrain 189' from DER, 247' left of
centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb
of 310' per NM to 8300, or 4900-3 for climb in visual
conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right
turn to 10000 via heading 190° and BPI R-040 to BPI
VOR/DME before proceeding on course. **Rwy 29**,
climbing left turn to 10000 via heading 230° and BPI
R-020 to BPI VOR/DME before proceeding on course
or for climb in visual conditions: cross Pinedale/Ralph
Wenz Field at or above 11800 before proceeding on
course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12**, multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/2251' MSL. **Rwy 30**, multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 7 09351 (FAA)

DEPARTURE PROCEDURE: use KNURL ONE DEPARTURE.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179 MSL. Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB. Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8, 13, 26, 31**, use WATTR FIVE DEPARTURE.

PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 500-3 or std. w/min. climb of 400' per NM to 600. **Rwy 10L/R**, std. w/min. climb of 270' per NM to 2900. **Rwy 21**, std. w/min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence ... **Rwys 10L, 10R**, climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence ... **Rwy 21**, climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence ... **Rwys 28L, 28R**, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence ... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3**, signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L**, rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R**, pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21**, trees beginning 1319' from departure end of runway, 155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L**, trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND, OR (CON'T)

PORTLAND-HILLSBORO (HIO)
AMDT 6 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwy 2**, std. w/ min. climb of 215' per NM to 1900 or 1200-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 235' per NM to 2700 or 1200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct UBG VOR/DME... **Rwy 20**, climbing left turn direct UBG VOR/DME... **Rwys 2, 30**, climbing left turn direct UBG VOR/DME, or for climb in visual conditions cross Portland-Hillsboro airport at or above 1600 then proceed direct UBG VOR/DME...

...all aircraft climb in UBG VOR/DME holding pattern (West, right turns, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2**, vehicle on road 247' from DER, 1' right of centerline, up to 15' AGL/220' MSL. Terrain left and right of centerline beginning at DER up to 302' MSL.

Rwy 12, terrain left and right of centerline beginning at DER up to 296' MSL. Trees 1836' from DER, 8' left of centerline, up to 125' AGL/331' MSL. **Rwy 20**, terrain left and right of centerline beginning at DER up to 306' MSL. Trees and hangers beginning 60' from DER, 32' left of centerline, up to 93' AGL/311' MSL. Trees, antennas and buildings beginning 564' from DER, 411' right of centerline, up to 74' AGL/280' MSL. **Rwy 30**, terrain left and right of centerline beginning at DER up to 292' MSL. Trees beginning 1664' from DER, 626' right of centerline, up to 194' AGL/363' MSL.

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7**, 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left.

Rwy 25, turn right. **All aircraft** climb via BTG R-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

POWELL, WY**POWELL MUNI**

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

Rwy 31, turn left. **All aircraft** climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)
AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/ min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15**, std. w/ min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28**, std. w/ min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15**, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 28**, climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

Rwy 33, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10**, trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15**, trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28**, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33**, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319' MSL.

PULLMAN-MOSCOW, WA**PULLMAN-MOSCOW RGNL**

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1¼ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)

AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.DEPARTURE PROCEDURE: **Rwy 16**, climbing rightturn. **Rwy 34**, climb runway heading. **All aircraft** climb via SEA R-158 to COTNY INT/SEA 18.1 DME.

Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16**, light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34**, multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

RAWLINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min.climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std.with a min climb of 365' per NM to 8700. **Rwys 10, 28**, NA.DEPARTURE PROCEDURE: **Rwy 4**, turn right.

Rwy 22, turn left. Climb to 10000 via RWL R-200 and CKW R-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)

AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std. w/ min. climb of 269' per NM to 4700. **Rwy 28**, std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10**, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22**, climb heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28**, climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28**, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)

AMDT 7 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 405' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2½ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16**, climb heading

157° to 700, then climbing right turn direct SEA VORTAC, thence..., or for climb in visual conditions: cross Renton Muni Airport westbound at or above 1000 MSL, then proceed on SEA R-029 to SEA VORTAC, thence... **Rwy 34**, Climb heading 337° to 700, then climbing left turn direct SEA VORTAC thence ...

...Climb in SEA VORTAC holding pattern (East, left turns, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16**, trees, towers, lights and blast shield beginning 185' from DER, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from DER, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34**, Trees and terrain beginning 1.6 NM from DER, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from DER, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right

turn. **Rwy 35**, climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17**, 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND (RLD)

AMDT 8 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwys 1, 8**, std. w/ min. climb of 310' per NM to 5000. **Rwy 19**, std. w/ min. climb of 480' per NM to 5000. **Rwy 26**, std. w/ min. climb of 350' per NM to 5000.

DEPARTURE PROCEDURE: **Rwys 1, 8**, climbing left turn heading 220° and PSC R-269 to 6000 to PAPPS INT/PSC 32.72 DME before proceeding on course. **Rwy 19**, climbing right turn heading 310° and PSC R-269 to 6000 to PAPPS INT/PSC 32.72 DME before proceeding on course. **Rwy 26**, climb heading 310° and PSC R-269 to 6000 to PAPPS INT/PSC 32.72 DME before proceeding on course.

NOTE: **Rwy 1**, crane 4957' from DER, 1271' right of centerline, up to 120' AGL/520' MSL. Poles beginning 752' from DER, 446' right of centerline, up to 20' AGL/416' MSL. Trees beginning 43' from DER, 102' left of centerline, up to 25' AGL/424' MSL. Multiple trees 184' from DER, 162' right of centerline, up to 25' AGL/424' MSL. **Rwy 8**, railroad beginning 181' from DER, left to right of centerline, up to 23' AGL/412' MSL. Sign 23' from DER, 122' right of centerline, up to 4' AGL/391' MSL. Trees beginning 1142' from DER, 12' right of centerline, up to 25' AGL/454' MSL. Trees beginning 2240' from DER, 94' left of centerline, up to 25' AGL/456' MSL. **Rwy 19**, bushes beginning 22' from DER, 297' left of centerline, up to 7' AGL/401' MSL. Trees beginning 323' from DER, 478' right of centerline, up to 25' AGL/424' MSL. Trees beginning 665' from DER, 399' left of centerline, up to 25' AGL/472' MSL. **Rwy 26**, antenna 310' from DER, 444' right of centerline, up to 7' AGL/408' MSL. Fence 458' from DER, 360' left of centerline, up to 25' AGL/425' MSL. Fence 456' from DER, 408' right of centerline, up to 25' AGL/410' MSL. Post 398' from DER, 255' right of centerline, up to 9' AGL/409' MSL. Bush 755' from DER, 257' right of centerline, up to 17' AGL/417' MSL. Ground 480' from DER, 488' right of centerline, up to 421' MSL. Trees beginning 174' from DER, 231' right of centerline, up to 25' AGL/425' MSL. Trees beginning 184' from DER, 210' left of centerline, up to 25' AGL/457' MSL.

RIVERTON, WY

RIVERTON RGNL (RIW)

AMDT 1 10042 (FAA)

DEPARTURE PROCEDURE: **Rwys 1, 10, 19, 28**, climbing right turn direct RIW VOR/DME. **All Aircraft** climb in RIW holding pattern (hold East, right turns, 287° inbound) to MEA for direction of flight.

NOTES: **Rwy 1**, sage brush beginning 35' from DER, left and right of centerline, up to 3' AGL/5499' MSL. **Rwy 10**, sage brush beginning 20' from DER, left and right of centerline, up to 3' AGL/5466' MSL. **Rwy 19**, sage brush beginning 49' from DER, 171' right of centerline, up to 3' AGL/5479' MSL. Windstocks beginning 154' from DER, 268' right of centerline, up to 28' AGL/5468' MSL. **Rwy 28**, sage brush, tower, and pole beginning 54' from DER, 154' right of centerline, up to 59' AGL/5679' MSL. Sage brush, fence, and poles beginning 132' from DER, 27' left of centerline, up to 67' AGL/5647' MSL.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY (RKS)

AMDT 6 10098 (FAA)

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 8000 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 9**, climb heading 090° to 8200 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 21**, climb heading 212° to 8400, then climbing right turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 27**, climb heading 270° to 7900, then climbing right turn via OCS R-291 to OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 3**, vehicle on road beginning 22' from DER, 120' left of centerline, up to 20' AGL/6760' MSL, bushes beginning 178' from DER, 517' right of centerline, up to 15' AGL/6755' MSL. **Rwy 21**, bush 53' from DER, 221' left of centerline, 15' AGL/6737' MSL.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34**, std. w/ min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34**, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16**, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34**, building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

AMDT 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from departure end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURNLOM/Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURNLOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwy 35**, 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17**, NA. **Rwy 35**, climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1**, 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19**, 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn to COE VOR/DME via heading 200° and COE R-002.

Rwy 19, climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5**, turn left heading 280°. **Rwy 23**, turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPARK

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33**, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15**, 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEY, MT

SCOBEY

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.

SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L**, 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R**, std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L**, std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 31R**, std. w/ a min. climb of 334' per NM to 900, or 400-1½ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEAR-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L**, multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL.

Rwy 13R, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L**, multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy 31R**, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R**, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence... climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L**, trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C**, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R**, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L**, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5**, 200-1¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5**, fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL. **Rwy 11**, truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions. **Rwy 23**, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000. **Rwy 23**, climbing left turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5**, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23**, multiple trees beginning 52' from departure end of runway, 149' left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.

SHERIDAN, WY**SHERIDAN COUNTY**

TAKE-OFF MINIMUMS: **Rwy 5**, 700-3 or std. w/ min. climb of 318' per NM to 5100, or... **Rwy 14**, 800-3 or std. w/ min. climb of 263' per NM to 5100, or... **Rwy 23**, 900-3 or std. w/ min. climb of 348' per NM to 5100, or...
 ... 1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 14**, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 23**, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 32**, climb via heading 320° and SHR R-106 to SHR VORTAC, thence...
 ... climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5**, multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23**, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32**, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT**SIDNEY-RICHLAND MUNI**

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA**HARVEY FIELD (S43)****ORIG 09127 (FAA)**

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L**, std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R**, std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L**, climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence... **Rwy 33R**, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 15L**, tree 81' from DER, 177' right of centerline, 40' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R**, powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA

FELTS FIELD (SFF)

AMDT 5 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3L**, std. w/ min. climb of 450' per NM to 3600, or 2300-3 for climb in visual conditions. **Rwy 3R**, std. w/ min. climb of 410' per NM to 3700, or 2300-3 for climb in visual conditions. **Rwy 21L**, std. w/ min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions. **Rwy 21R**, std. w/ min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R**, climb heading 035° to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above MCA/MEA for route of flight. **Rwys 21L, 21R**, climb heading 215° to 3200, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA/MEA for route of flight.

NOTE: **Rwy 3L**, trees beginning 1853' from DER, 772' right of centerline, up to 100' AGL/2037' MSL. Trees beginning 3538' from DER, 529' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.5 NM from DER, 16' left of centerline, up to 100' AGL/2579' MSL. Trees beginning 2.3 NM from DER, 723' right of centerline, up to 100' AGL/2499' MSL. **Rwy 3R**, hangar, NDB, and trees beginning 92' from DER, 269' right of centerline, up to 100' AGL/2040' MSL. Trees beginning 4685' from DER, 1033' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.6 NM from DER, 525' left of centerline, up to 100' AGL/2559' MSL. Trees and transmission poles beginning 2.6 NM from DER, 214' right of centerline, up to 150' AGL/2570' MSL. **Rwy 21L**, elevator, pole on building and trees beginning 315' from DER, 302' left of centerline, up to 140' AGL/2080' MSL. **Rwy 21R**, poles and trees beginning 188' from DER, 13' right of centerline, up to 100' AGL/1982' MSL. Elevator, pole, hangar, and building beginning 203' from DER, 1' left of centerline, up to 140' AGL/2080' MSL. Terrain and trees beginning 3.1 NM from DER, 4904' left of centerline, up to 100' AGL/2559' MSL.

SPOKANE INTL (GEG)

AMDT 5 10154 (FAA)

DEPARTURE PROCEDURE: **Rwys 3, 25**, climbing left turn direct GEG VORTAC, thence... **Rwys 7, 21**, climbing right turn direct GEG VORTAC, thence... continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeast bound V120-448, 5200; eastbound V2, 5200; southeast through westbound climb on course.

NOTE: **Rwy 3**, multiple trees beginning 1089' from DER, 666' left of centerline, up to 100' AGL/2370' MSL. Tree 1524' from DER, 851' right of centerline, 100' AGL/2374' MSL. **Rwy 21**, pole 2655' from DER, 1122' left of centerline, 42' AGL/2446' MSL. Tree 3391' from DER, 1315' right of centerline, 100' AGL/2466' MSL.

STEVENSVILLE, MT

STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSOR-163. **Rwy 30**, do not exceed 210 knots until established on MSOR-160.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 335 and MSOR-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30**, climbing right turn via heading 025° and MSO R-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR

SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36**, 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36**, climb direct to DSD VORTAC. Then all aircraft climb on course.

TACOMA, WA

TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17**, turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35**, turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A, B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C, D 2600-3 or std. with a min. climb of 475' per NM to 3100. **Rwy 7**, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2, 7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. All aircraft intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR

TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500.

DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

TORRINGTON, WY

TORRINGTON MUNI (TOR)
ORIG 10042 (FAA)

NOTE: **Rwy 2**, terrain 30' from DER, 277' left of centerline, 4197' MSL. **Rwy 10**, multiple trees and fence beginning 71' from DER, 143' right of centerline, up to 14' AGL/4214' MSL. Terrain 14' from DER, 502' left of centerline, 4199' MSL. **Rwy 28**, terrain 133' from DER, 386' right of centerline, 4213' MSL.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL
TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWF R-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWF VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)
AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions.

Rwy 26, 600-3 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...

Rwy 26, climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...

...continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL.

Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from

departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL.

Rwy 26, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2, 7, 20, 25, 34**, turn left. **Rwy 16**, turn right. **All aircraft** climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)
ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 3900 before proceeding on course. **Rwy 30**, climb heading 301° to 4000 before proceeding on course

...for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12**, tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30**, tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900.

Rwys 25, 30, CAT A,B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C,D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25, 30**, climbing left turn. **All aircraft** climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CWR-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CWR-2007400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH: **Rwy 1**, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right. **All aircraft** climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8**, climbing left turn to 9000 via heading 030° to intercept IIP VOR/ DME R-140 to JEZZY Int, thence... **Rwy 26**, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to JEZZY INT, thence...

...continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8**, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL.

Rwy 26, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/ lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD)

(NUW)

OKA HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7**:

Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25**: Climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS**: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE:

Rwy 7: Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25**: Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS**: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy 7**: Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA.

Rwy 16, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CW R-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

YAKIMA AIR TERMINAL/MCALLISTER FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, NA. **Rwy 9**, 800-4 or std. with a min. climb of 300' per NM to 5000. **Rwys 22, 27**, 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4**, NA. **Rwys 9, 22, 27**, Use ZILLA DEPARTURE PROCEDURE.

MISSED APPROACH: Climbing left turn to 3500 via CVO R-032 to CVO VOR/DME and hold.

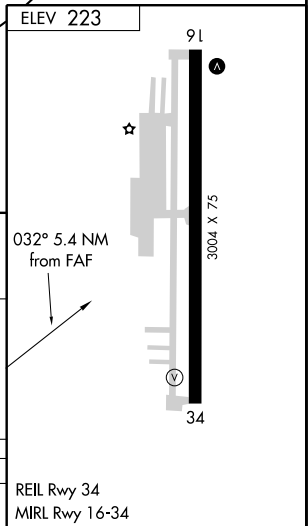
APP CON ★

CASCADE APP CO.
127.5 348.7

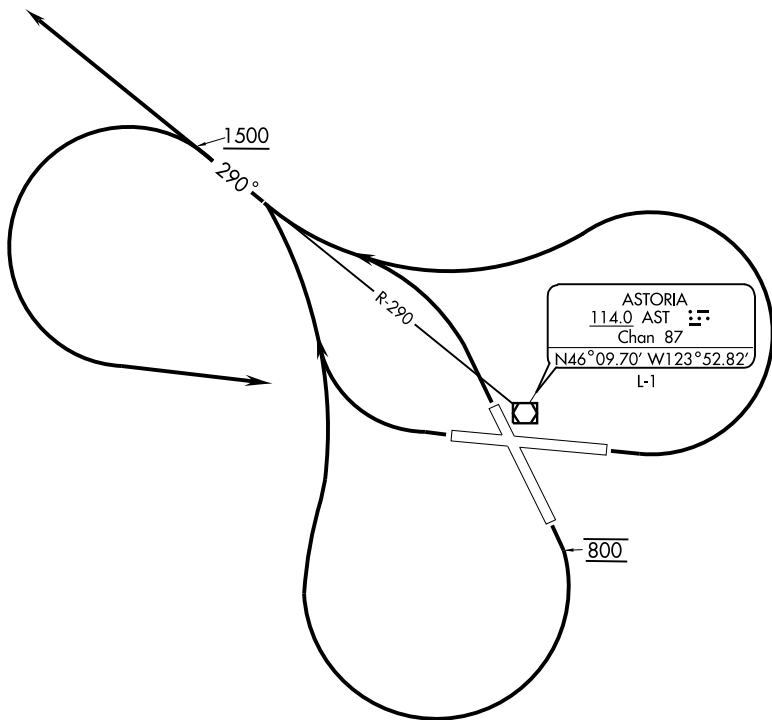
UNICOM
122.8 (CTAF) **L**



ELEV 223



SEATTLE CENTER
124.2 317.6
McMINNVILLE RADIO
122.3



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 8,31: Turn left. Thence....

TAKE-OFF RUNWAY 26: Turn right. Thence....

TAKE-OFF RUNWAY 13: Climb runway heading to 800 then climbing right turn. Thence....

.... Aircraft departing northwest bound climb via AST R-290 on course. All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

LOC I-AST	APP CRS	Rwy Idg TDZE	N/A
109.5	257°	Apt Elev	11

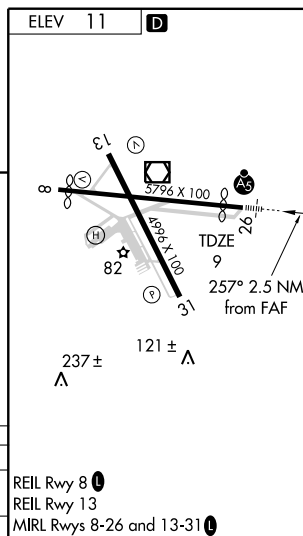
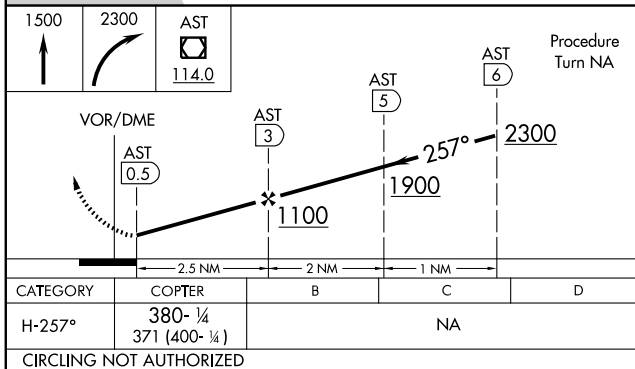
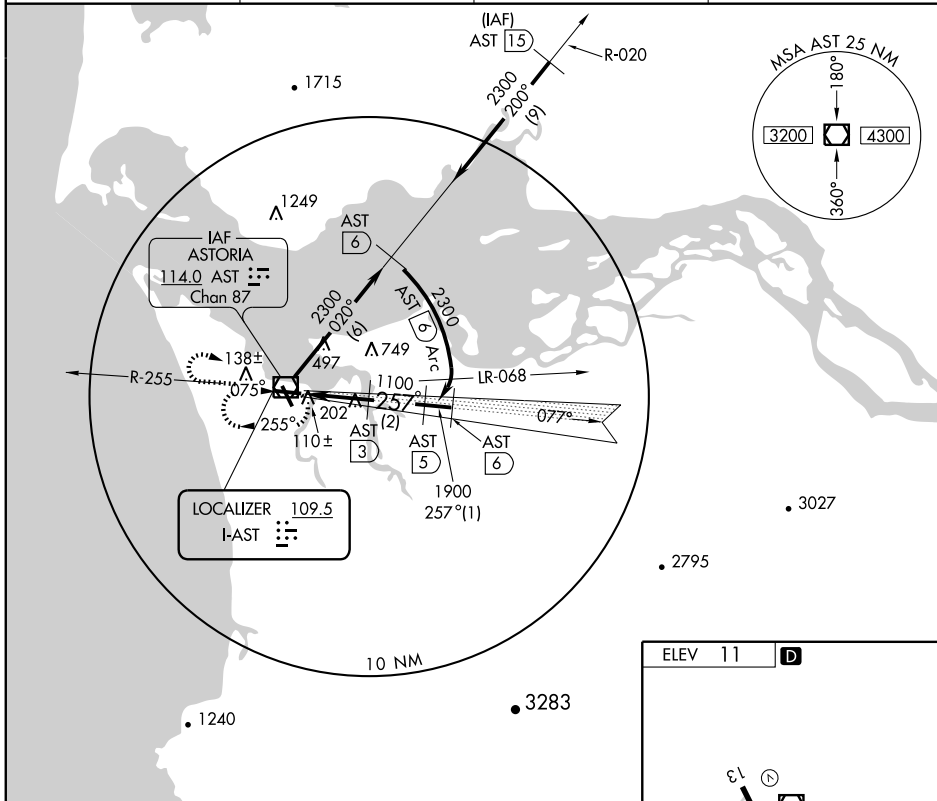
COPTER LOC/DME 257°

ASTORIA RGNL (AST)

V DME from AST VOR/DME. Simultaneous reception of I-AST and AST VOR/DME required.
NA Increase visibility to ½ mile for inoperative MALSRL.

MISSED APPROACH: Climb to 1500 then climbing right turn to 2300 direct AST VOR/DME and hold.

ASOS	SEATTLE CENTER	MC MINNVILLE RADIO	UNICOM
135.375	124.2 317.6	122.3	122.8 (CTAF)



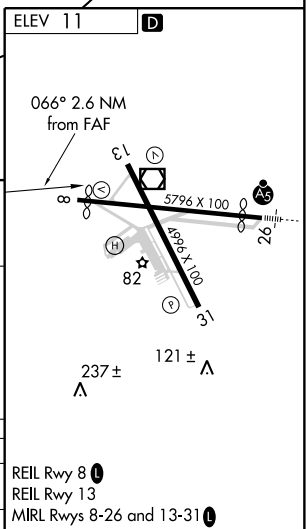
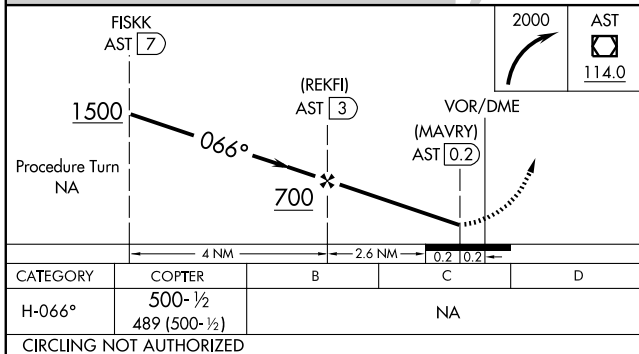
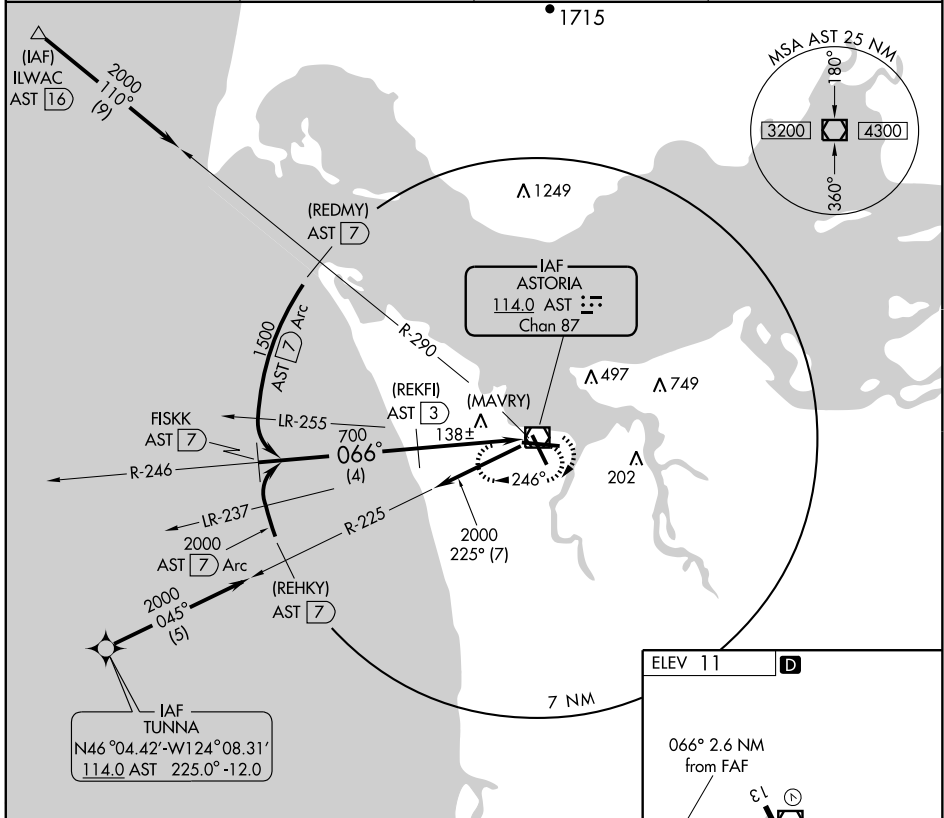
VOR/DME AST 114.0 Chan 87	APP CRS 066°	Rwy Idg TDZE Apt Elev 11	N/A N/A 11
---	------------------------	--	-------------------------

COPTER VOR/DME or GPS 066°

ASTORIA RGNL (AST)

<p>NA</p>	<p>MISSED APPROACH: Climbing right turn to 2000 in AST VOR/DME holding pattern.</p>
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<p>ASOS 135.375</p>	<p>SEATTLE CENTER 124.2 317.6</p>	<p>MC MINNVILLE RADIO 122.3</p>	<p>UNICOM 122.8 (CTAF) 0</p>
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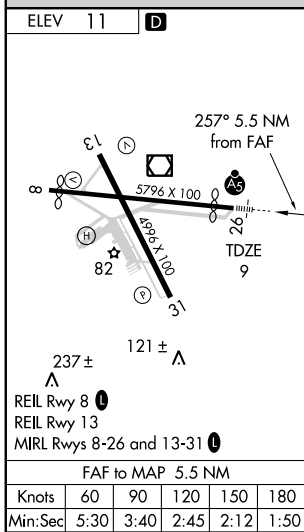
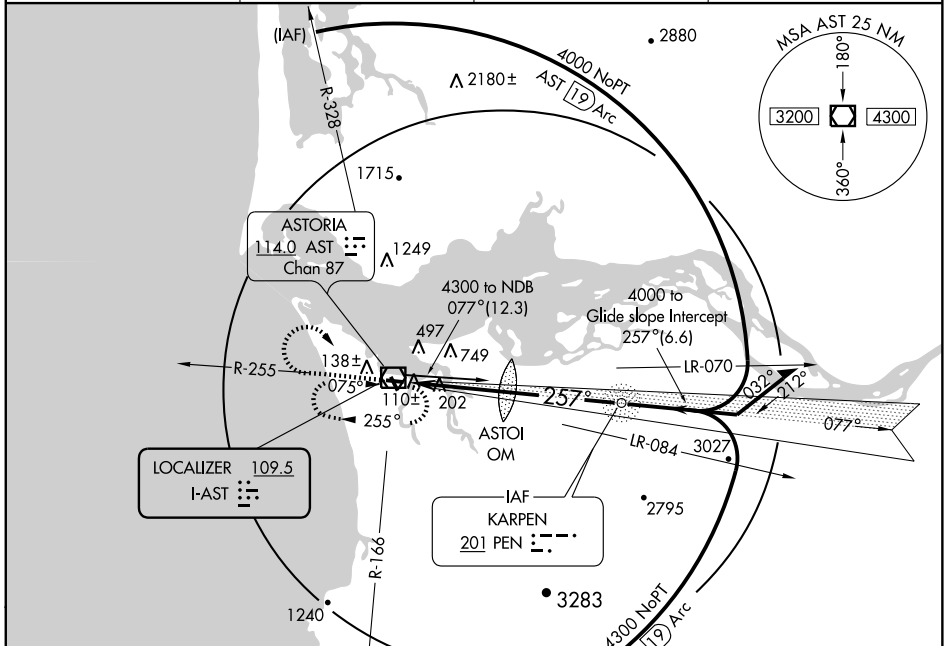


LOC I-AST 109.5	APP CRS 257°	Rwy Idg TDZE Apt Elev 4782 9 11
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ILS RWY 26 ASTORIA RGNL (AST)

T A NA	Circling requires descent on GS to MDA.	MALSR 	MISSED APPROACH: Climb to 1500 then climbing right turn to 2900 direct AST VOR/DME and hold.
-------------------------	---	-----------	--

ASOS 135.375	SEATTLE CENTER 124.2 317.6	MC MINNVILLE RADIO 122.3	UNICOM 122.8 (CTAF)
------------------------	--------------------------------------	------------------------------------	-------------------------------



ADF or DME REQUIRED				
1500 ↑	2900 ↷	AST 114.0 	NDB 3961 077° 257° 4300 GS 3.00° TCH 55	
ASTOI OM 1837				
5.5 NM 6.4 NM				
CATEGORY	A	B	C	D
S-ILS 26	292- $\frac{3}{4}$ 283 (300- $\frac{3}{4}$)			
S-LOC 26	Approach not authorized when glide slope not utilized.			
CIRCLING ILS	700-1 689 (700-1)	760-1 $\frac{1}{4}$ 749 (800-1 $\frac{1}{4}$)	800-2 $\frac{1}{4}$ 789 (800-2 $\frac{1}{4}$)	880-2 $\frac{3}{4}$ 869 (900-2 $\frac{3}{4}$)

WAAS CH 97711 W26A	APP CRS 257°	Rwy Idg 4782 TDZE 14 Apt Elev 15
--	------------------------	---

RNAV (GPS) RWY 26
ASTORIA RGNL (AST)

ASTORIA RGNL (AST)

T Inoperative table does not apply. DME/DME RNP -0.3 NA.
A Visibility reduction by helicopters NA.
 When local altimeter setting not received, use Kelso altimeter setting and increase all DA 95 feet and all MDA 100 feet; increase LPV all Cats, LNAV Cats C and D and circling Cats C and D visibility ¼ mile.

MALSR

A5

MISSED APPROACH: Climb to 5000 direct STAZY and via track 185° to YUXBU and via track 115° to KULOA and hold.

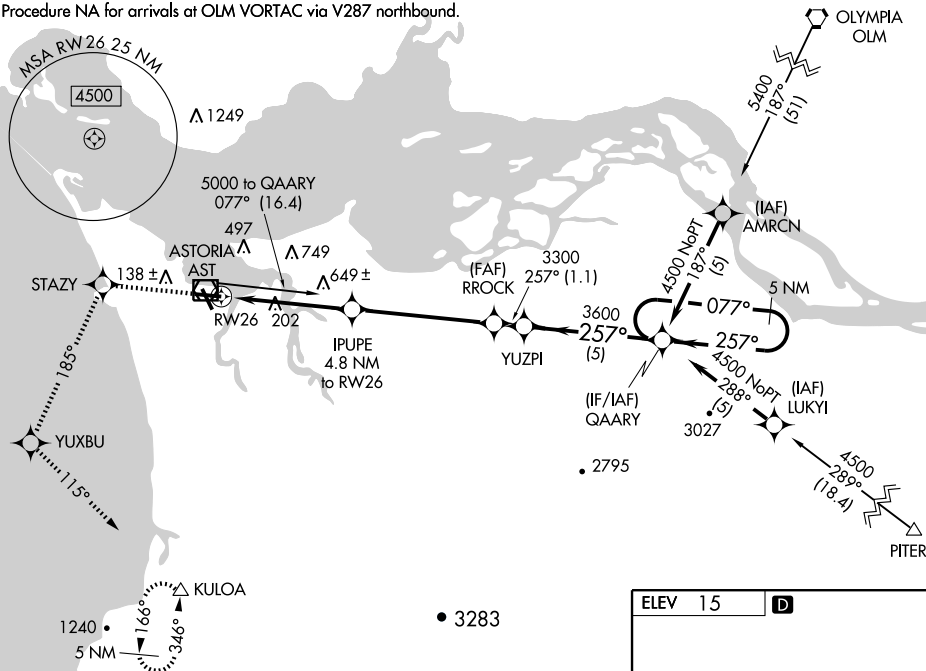
ASOS
135.375

SEATTLE CENTER
124.2 317.6

MC MINNVILLE RADIO
122.3

UNICOM
122.8 (CTAF) **L**

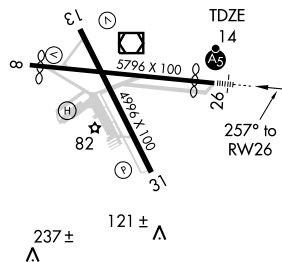
Procedure NA for arrivals at OLM VORTAC via V287 northbound.



NW-1. 03 JUN 2010 to 01 JUL 2010

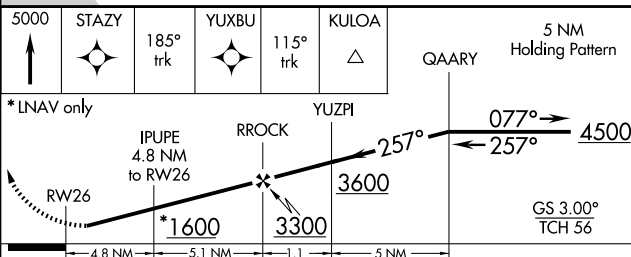
ELEV	15
------	----

D



REIL Rwy 8 L

REIL Rwy 13

MIRL Rwy 8-26 and 13-31 **L**

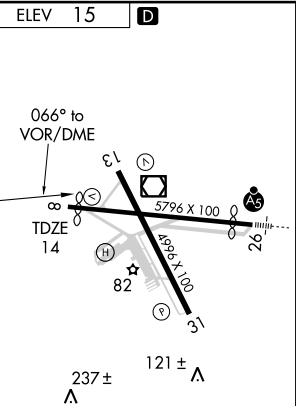
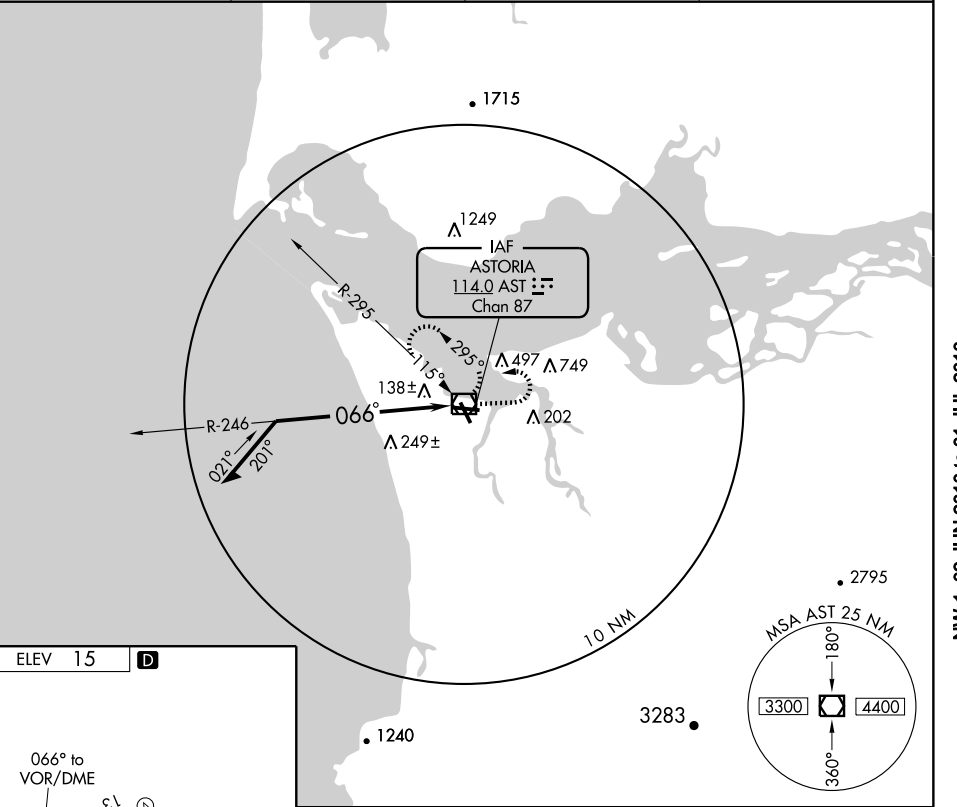
CATEGORY	A	B	C	D
LPV DA	300-1 286 (300-1)			
LNAV MDA	900-1¼	886 (900-1¼)	900-2¾ 886 (900-2¾)	900-3 886 (900-3)
CIRCLING	900-1¼	885 (900-1¼)	900-2¾ 885 (900-2¾)	900-3 885 (900-3)



▼

▲

MISSED APPROACH: Climb to 1000 then climbing left turn to 3000 in AST VOR/DME holding pattern.

ASOS 135.375	SEATTLE CENTER 124.2 317.6	MC MINNVILLE RADIO 122.3	UNICOM 122.8 (CTAF) 0
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	CATEGORY	A	B	C	D
REIL Rwy 8 	S-8	660-1	646 (700-1)	660-1 $\frac{3}{4}$ 646 (700-1 $\frac{3}{4}$)	660-2 646 (700-2)
REIL Rwy 13	CIRCLING	660-1	760-1 $\frac{1}{4}$	800-2 $\frac{1}{4}$	900-3
MIRL Rws 8-26 and 13-31 		645 (700-1)	745 (800-1 $\frac{1}{4}$)	785 (800-2 $\frac{1}{4}$)	885 (900-3)

HELNS FOUR ARRIVAL

ST-330 (FAA)

PORTLAND, OREGON

PORTLAND APP CON

124.35 299.2

PORTLAND INTL ATIS

128.35 269.9

PORTLAND-HILLSBORO ATIS

127.65

SEATTLE

116.8 SEA

Chan 115

N47°26.12'-W122°18.58'

L-1, H-1

10000
+9700
161°
(71)HELNS
N46°15.42'
W122°18.58'10000
180°
(111)7000
(22)

BATTLE GROUND

116.6 BTG

Chan 113

N45°44.87'-W122°35.49'

KRATR

N46° 05.39' - W122° 24.17'

NOTE: Maintain the last assigned altitude. Upon receipt of "Descend via the HELNS4": . . .

PROP/TURBOPROP: Cross at and maintain 10,000'.

TURBOJET: Cross at and maintain 12,000' at 300 KIAS or less.

PORTLAND
INTLPORTLAND-
HILLSBORO

PORTLAND-TROUTDALE

AURORA
STATE

NOTE: Chart not to scale.

NOTE: DME and RADAR required.

SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence....

.... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence....

LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course.

LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.

▼

▲

Inoperative table does not apply.

ODALS

MISSED APPROACH: Climb to 900 then climbing left turn to 4000 via heading 050° and BTG R-160 to GLARA Int/ BTG 28.2 DME and hold. Continue climb-in-hold to 4000.

ASOS 118.525	PORTLAND APP CON 126.0 284.6	CLNC DEL 119.95	UNICOM 122.7 (CTAF) 0
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MSA UBG 25 NM

NEWBERG 117.4 UBG Chan 121

LOCALIZER 111.15 I-UAO Chan 48 (Y)

IAF BATTLEGROUND 116.6 BTG Chan 113

2049 2049

(IF/IAF) MOKIY INT I-UAO 14

2600 169° (6)

1726

4000 063° (9.8)

1398±

116.6 BTG Chan 113

3100 NoPT 178° (17.8)

1618

211°

034°

169°

169° 7 NM from FAF

246±

276±

5004 x 100

35

MIRL Rwy 17-35

10 NM

329±

346

325

160°

340°

GLARA INT BTG 28.2

R-036

R-063

R-092

R-160

R-085

ELEV 200	169° 7 NM from FAF	900	4000	BTG R-160 116.6	GLARA	LUTZZ INT I-UAO 8	Remain within 10 NM
TDZE 200	246±	900	050°	3.19° TCH 40	2600	349°	3100
276±	232	900				169°	
5004 x 100		2.1 NM	4.9 NM				VGSi and descent angles not coincident.
35							
MIRL Rwy 17-35							
FAF to MAP 7 NM							
Knots	60	90	120	150	180		
Min:Sec	6:59	4:40	3:29	2:47	2:19		
CATEGORY	A	B	C	D			
S-17	900-1 700 (700-1)	900-2 700 (700-2)	900-2 700 (700-2)	900-2 700 (700-2)			
CIRCLING	900-1 700 (700-1)	900-2 700 (700-2)	900-2 700 (700-2)	900-2 700 (700-2)			
FIDOV FIX MINIMUMS							
S-17	580-1 380 (400-1)	580-1 380 (400-1)	580-1 380 (400-1)	580-1 380 (400-1)			
CIRCLING	640-1 440 (500-1)	660-1 460 (500-1)	660-1 460 (500-1)	660-1 460 (500-1)			

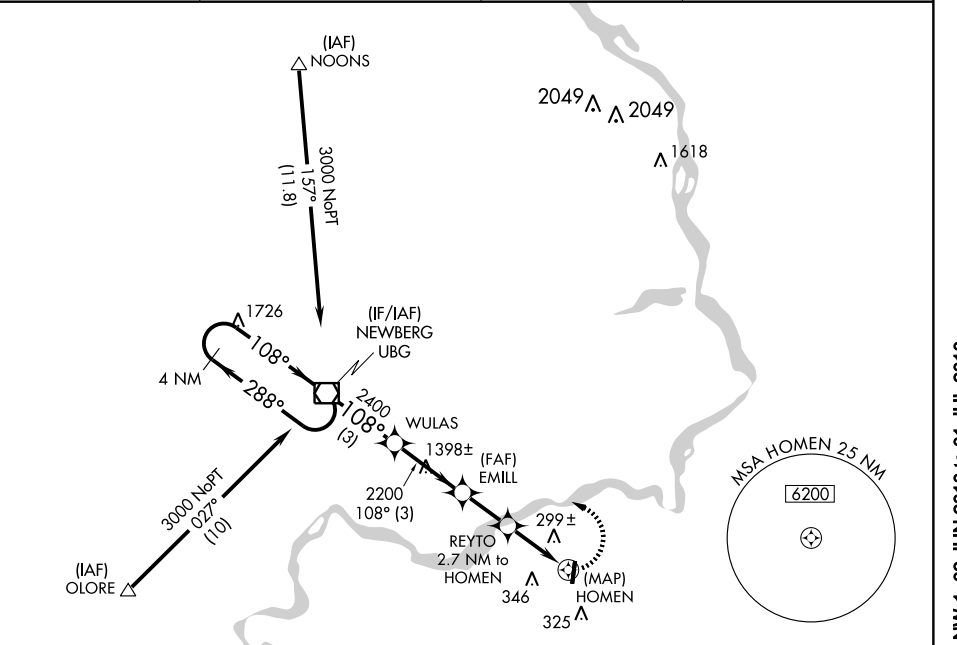
NW-1, 03 JUN 2010 to 01 JUL 2010

▽

DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing left turn to 3500 direct UBG VOR/DME and hold.

ASOS 118.525	PORTLAND APP CON 126.0 284.6	CINC DEL 119.95	UNICOM 122.7 (CTAF) 0
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4 NM Holding Pattern

VOR/DME

3000

288°

108°

2400

2200

1700

3 NM

3 NM

2 NM

2.7 NM

3500

UBG

HOMEN

CATEGORY	A	B	C	D
CIRCLING	640-1 440 (500-1)	660-1 460 (500-1)	660-1½ 460 (500-1½)	760-2 560 (600-2)

ELEV 200

246±

232

276±

5004 X 100

35

MIRL Rwy 17-35 **0**

NW-1. 03 JUN 2010 to 01 JUL 2010

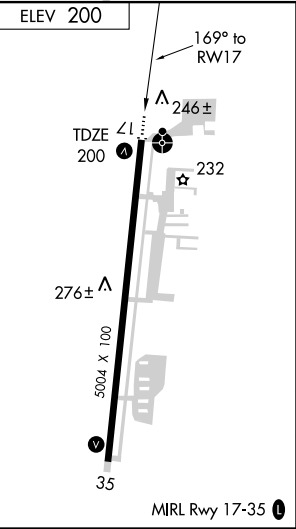
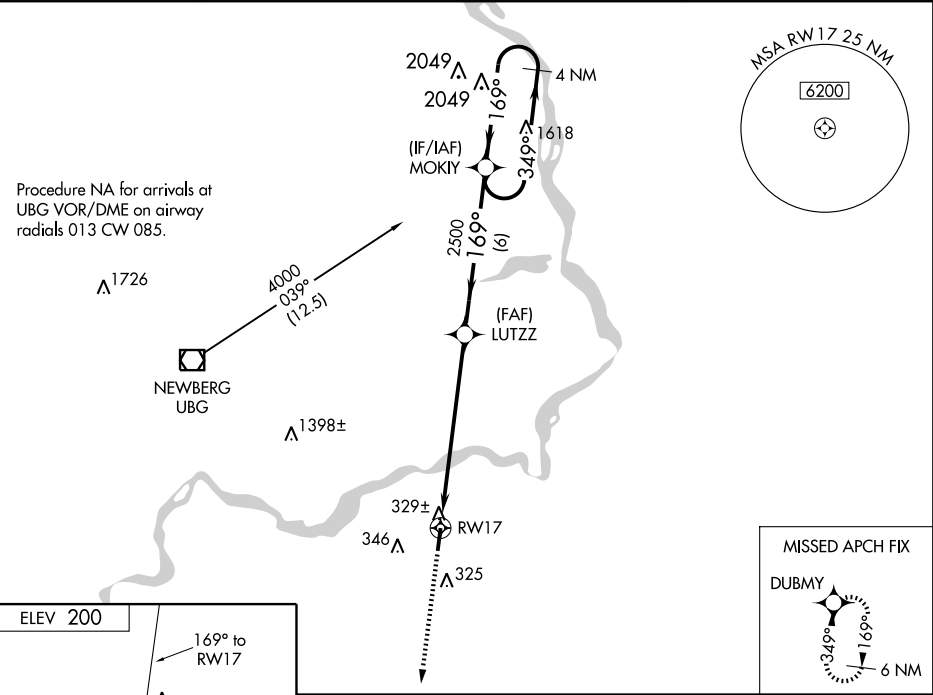
WAAS CH 70308 W17A	APP CRS 169°	Rwy Idg TDZE Apt Elev	5004 200 200
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⚠ DME/DME RNP-0.3 NA. When local altimeter setting not received, use Mc Minnville Muni altimeter setting and increase all DA 42 feet and all MDA 60 feet; increase LPV, LNAV/VNAV visibilities all Cats. ¼ mile, increase LNAV visibility Cats. A/C/D ¼ mile, increase Circling visibilities Cats. A/C/D ¼ mile. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). Inoperative table does not apply. Visibility reduction by helicopters NA.

ODALS

MISSED APPROACH:
Climb to 3500 direct DUBMY and hold, continue climb-in-hold to 3500.

ASOS 118.525	PORTLAND APP CON 126.0 284.6	CLNC DEL 119.95	UNICOM 122.7 (CTAF)
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3500

DUBMY

VGSI and RNAV glidepath not coincident.

LUTZZ

MOKIY

4 NM Holding Pattern

RW17

LUTZZ

MOKIY

7 NM

6 NM

GS 3.00° TCH 40

CATEGORY	A	B	C	D
LPV DA	550-1¼ 350 (400-1¼)			
LNAV/VNAV DA	580-1¼ 380 (400-1¼)			
LNAV MDA	1060-1 860 (900-1)	1060-1¼ 860 (900-1¼)	1060-2½ 860 (900-2½)	1060-2¾ 860 (900-2¾)
CIRCLING	1060-1 860 (900-1)	1060-1¼ 860 (900-1¼)	1060-2½ 860 (900-2½)	1060-2¾ 860 (900-2¾)

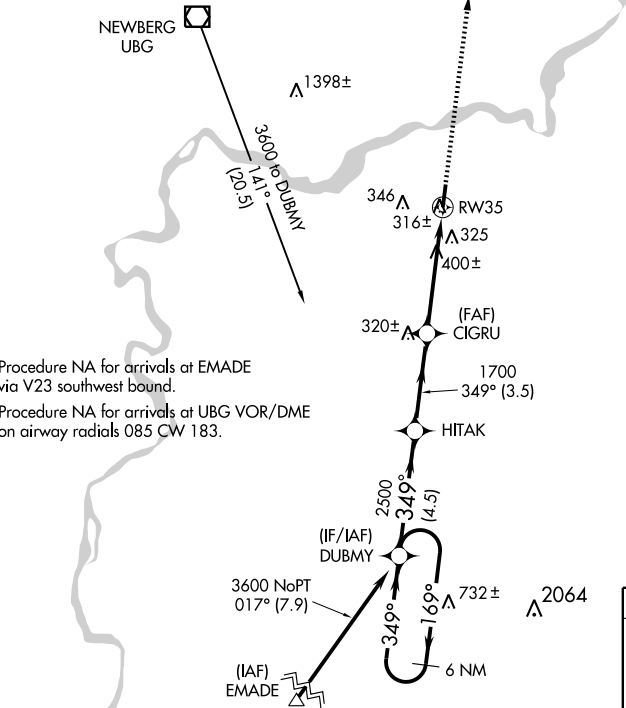
WAAS CH 77508 W35A	APP CRS 349°	Rwy Idg 5004 TDZE 199 Apt Elev 200
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RNAV (GPS) RWY 35
AURORA STATE (UAO)

⚠ DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). When local altimeter setting not received, use Mc Minnville Muni altimeter setting and increase all DA 42 feet and MDA 60 feet; increase LPV, LNAV/VNAV visibilities ¼ mile all Cats, increase LNAV Cat D visibility to 1½. Visibility reduction by helicopters NA. Baro-VNAV NA when using Mc Minnville Muni altimeter setting.

MISSED APPROACH: Climb to 4000 direct MOKIY and hold, continue climb-in-hold to 4000.

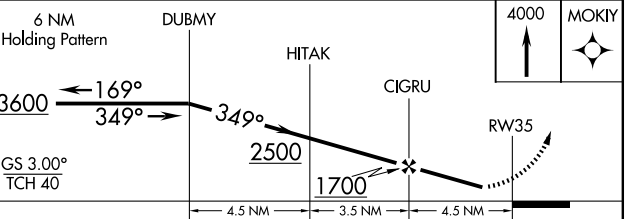
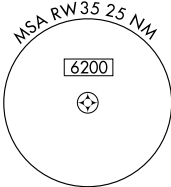
ASOS 118.525	PORTLAND APP CON 126.0 284.6	CLNC DEL 119.95	UNICOM 122.7 (CTAF) 0
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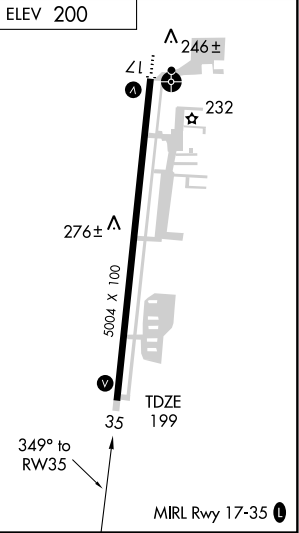
MISSED APCH FIX



Procedure NA for arrivals at EMADE via V23 southwest bound.
Procedure NA for arrivals at UBG VOR/DME on airway radials 085 CW 183.

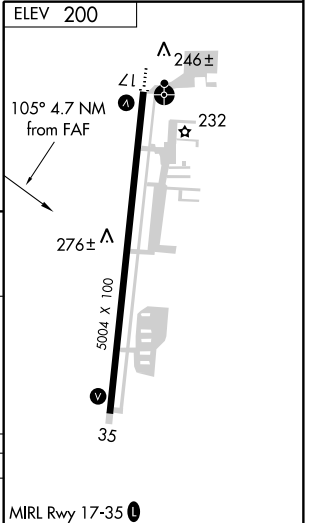
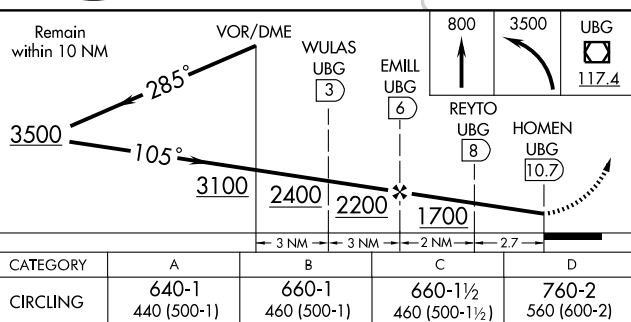
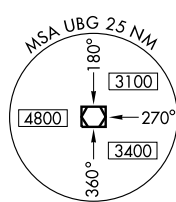
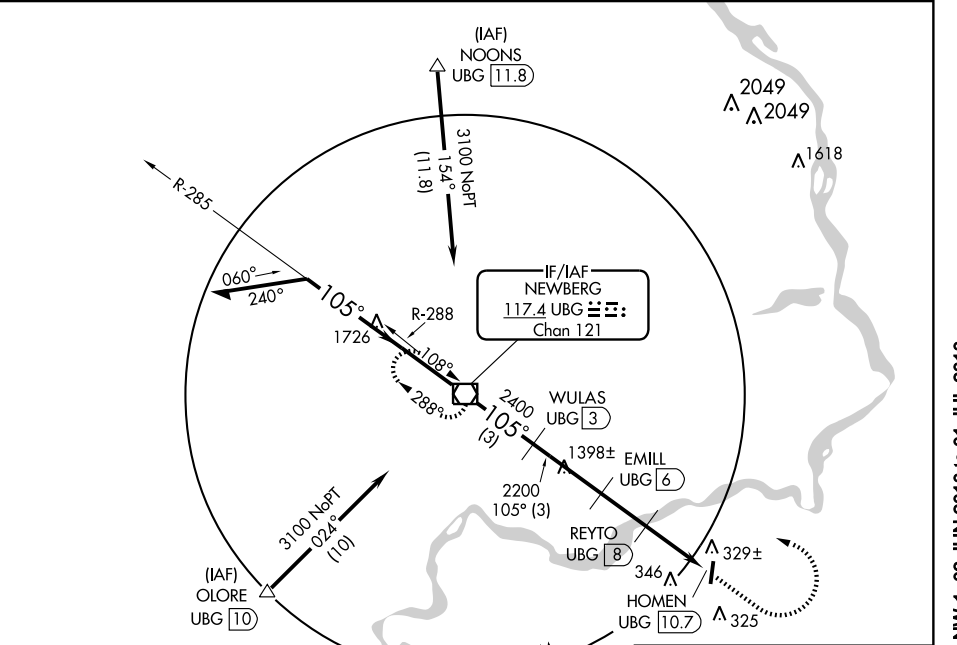


CATEGORY	A	B	C	D
LPV DA		500-1	301 (300-1)	
LNAV/VNAV DA		604-1½	405 (500-1½)	
LNAV MDA	700-1 501 (500-1)		700-1½ 501 (500-1½)	
CIRCLING	700-1 500 (500-1)		700-1½ 500 (500-1½)	760-2 560 (600-2)



MISSED APPROACH: Climb to 800 then climbing left turn to 3500 direct UBG VOR/DME and hold.

ASOS 118.525	PORTLAND APP CON 126.0 284.6	CLNC DEL 119.95	UNICOM 122.7 (CTAF) 0
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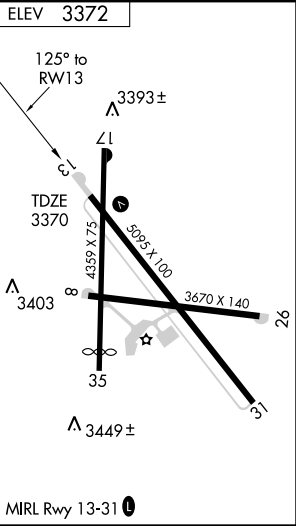
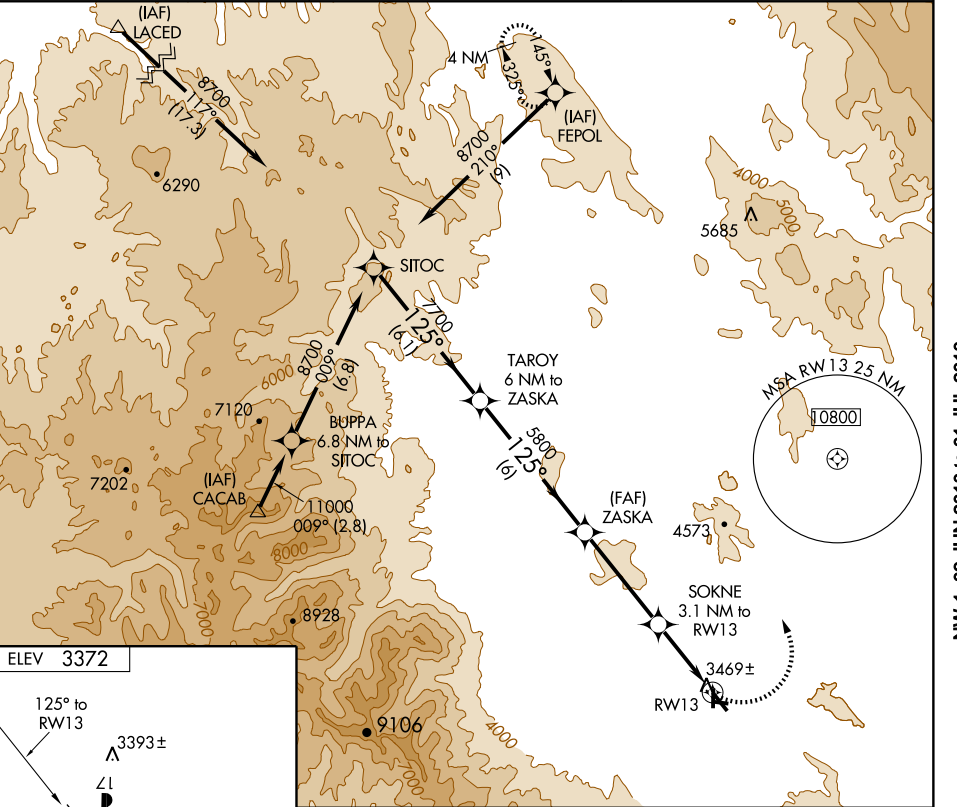


NW-1. 03 JUN 2010 to 01 JUL 2010

DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing left turn to 9000 direct FEPOL and hold.

ASOS 134.275	SALT LAKE CENTER 128.05 387.15	UNICOM 123.0 (CTAF) 
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	SITOC	TAROY 6 NM to ZASKA	ZASKA	SOKNE 3.1 NM to RW13	9000	FEPOL
	8700	7700	5800	4420		
	Procedure Turn NA					
	6.1 NM	6 NM	4.2 NM	3.1 NM		
CATEGORY	A	B	C	D		
LNAB MDA	4080-1	710 (800-1)	4080-2 710 (800-2)	4080-2 710 (800-2¼)		
CIRCLING	4080-1	708 (800-1)	4080-2 708 (800-2)	4220-2¼ 848 (900-2¼)		

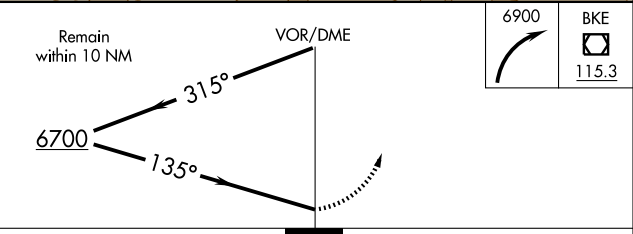
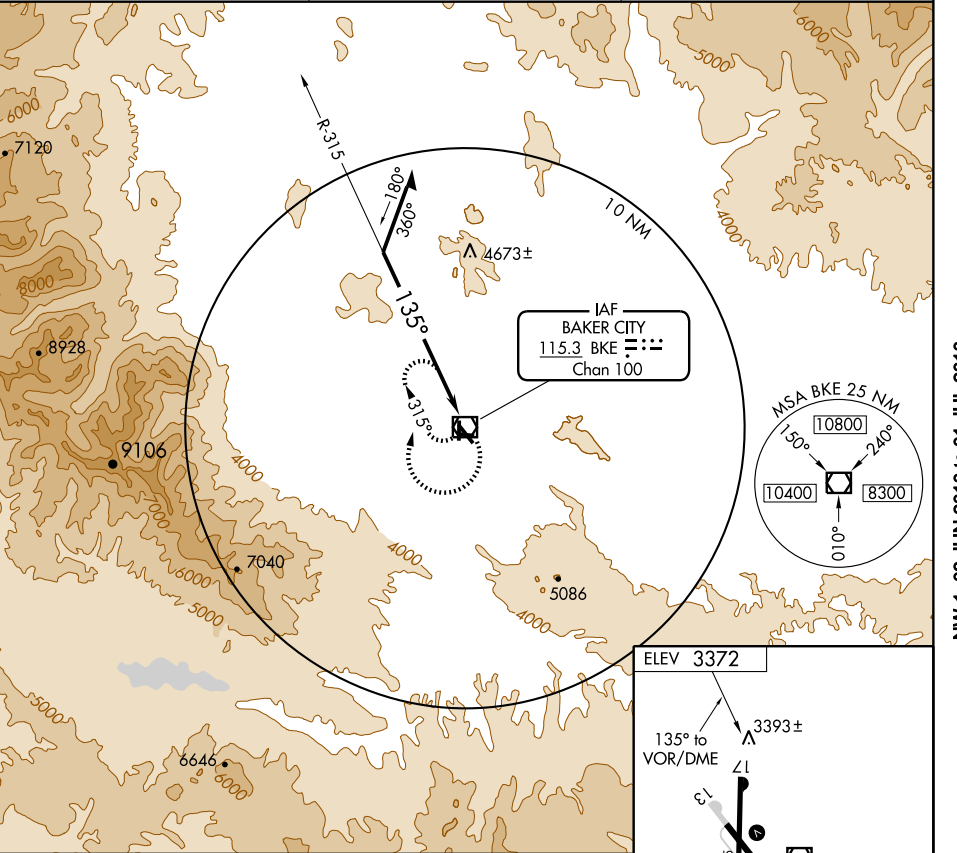
NW-1. 03 JUN 2010 to 01 JUL 2010

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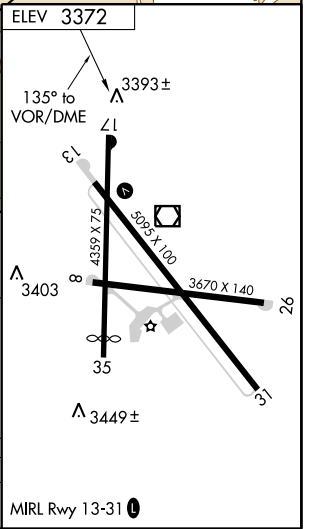
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MISSED APPROACH: Climbing right turn to 6900 in BKE VOR/DME holding pattern.

ASOS 134.275	SALT LAKE CENTER 128.05 387.15	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
CIRCLING	5200-1¼ 1828 (1900-1¼)	5200-1½ 1828 (1900-1½)	5200-3 1828 (1900-3)	



▼

▲

MISSED APPROACH:

Climb to 4000 then climbing left turn to 10500 via BKE R-325 to WOLUP and hold.

ASOS 134.275	SALT LAKE CENTER 128.05 387.15	UNICOM 123.0 (CTAF) 0
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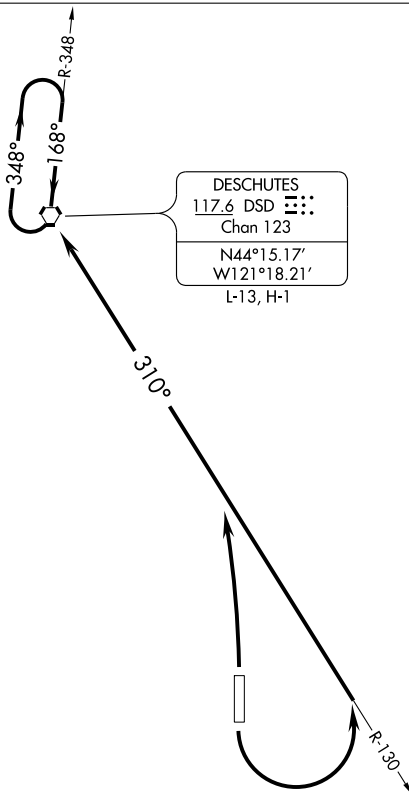
CATEGORY	A	B	C	D
S-13	4000-1	630 (700-1)	4000-1¾ 630 (700-1¾)	4000-2 630 (700-2)
CIRCLING	4000-1 627 (700-1)	4000-1 627 (700-1)	4000-1¾ 627 (700-1¾)	4220-2¾ 847 (900-2¾)

MIRL Rwy 13-31 0

NW-1, 03 JUN 2010 to 01 JUL 2010

BEND ONE DEPARTURE (OBSTACLE)

SEATTLE CENTER
128.15 257.75
CTAF 123.0

TAKE-OFF MINIMUMS

Rwys 16, 34: Standard.

TAKE-OFF OBSTACLE NOTES

Rwy 16: Trees beginning 75' from DER, 412' left of centerline, up to 43' AGL/3572' MSL.

Trees beginning 432' from DER, 5' right of centerline, up to 37' AGL/3541' MSL.

Terrain beginning 27' from DER, 197' right of centerline, up to 3469' MSL.

Road 1' from DER, 414' left of centerline, 17' AGL/3466' MSL.

Rwy 34: Trees beginning 306' from DER, 178' left of centerline, up to 25' AGL/3436' MSL.

Road beginning 460' from DER, 414' left of centerline, up to 17' AGL/3425' MSL.

Bush 94' from DER, 443' left of centerline, 4' AGL/3407' MSL.

Terrain beginning 1' from DER, 147' left of centerline, up to 3408' MSL.

Trees beginning 52' from DER, 252' right of centerline, up to 39' AGL/3429' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climbing left turn to intercept DSD R-130 to DSD VORTAC,
Thence

TAKE-OFF RUNWAY 34: Climbing left turn to intercept the DSD R-130 to DSD VORTAC,
Thence

. . . . Climb in DSD VORTAC holding pattern to cross DSD VORTAC at or above the
MEA/MCA for the route of flight.

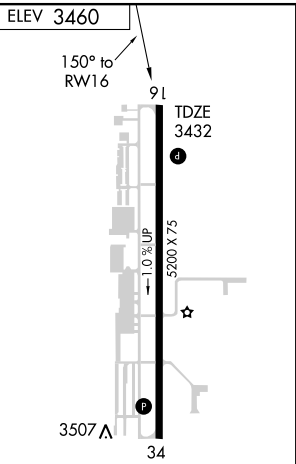
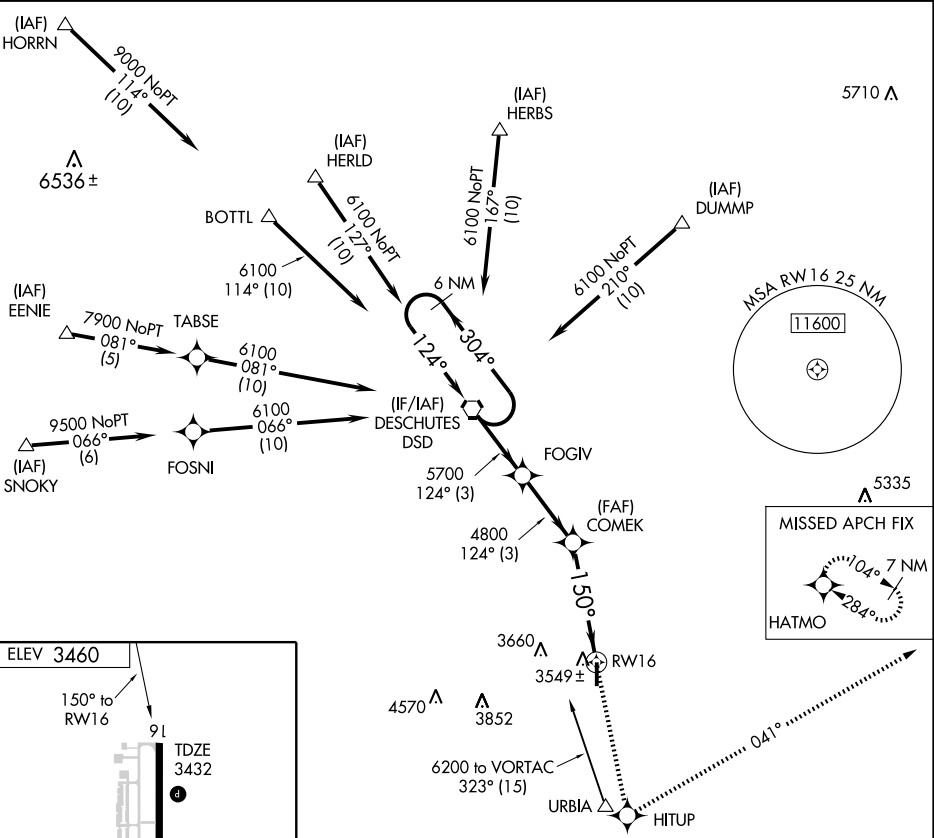
APP CRS	Rwy Idg	5200
150°	TDZE	3432
	Apt Elev	3460

RNAV (GPS) Y RWY 16

BEND MUNI (BDN)

<p>▼ DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Redmond altimeter setting and increase all MDAs 80 feet, and LNAV Cats C/D visibility ¼ mile, and circling Cat C visibility ¼ mile.</p> <p>▲ NA</p>	<p>MISSED APPROACH: Climb to 7400 direct HITUP and left turn via 041° track to HATMO and hold, continue climb-in-hold to 7400.</p>
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AWOS-3 134.425	SEATTLE CENTER 128.15 257.75	UNICOM 123.0 (CTAF) 0
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MIRL Rwy 16-34 **0**

6 NM Holding Pattern	VORTAC	FOGIV	COMEK	7400 HITUP	HATMO
6100	304°	124°	124°	2.91° TCH 50	041° track
5700	4800	150°			
	3 NM	3 NM	4.4 NM		
CATEGORY	A	B	C	D	
LNAV MDA	3800-1	368 (400-1)		3800-1½	368 (400-1½)
CIRCLING	3940-1 480 (500-1)	3980-1 520 (600-1)	4000-1½ 540 (600-1½)	4040-2 580 (600-2)	

NW-1. 03 JUN 2010 to 01 JUL 2010

WAAS CH 81906 W16A	APP CRS 161°	Rwy Idg TDZE Apt Elev	5200 3432 3460
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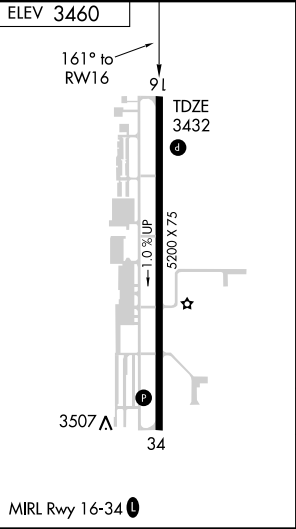
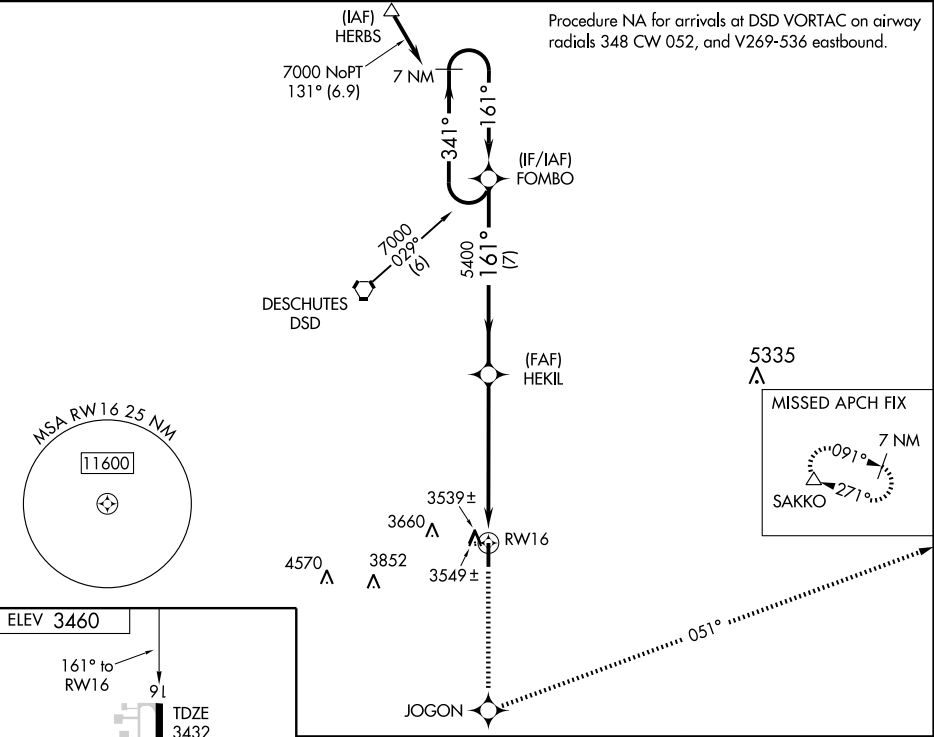
RNAV (GPS) Z RWY 16
BEND MUNI (BDN)

NA

When local altimeter setting not received, use Redmond altimeter setting, and increase all DA/MDAs by 80 feet, LPV visibilities ¼ mile all Cats, LNAV/VNAV visibilities ¼ mile all Cats, LNAV Cat D visibility ¼ mile, and circling Cat C visibility ¼ mile. For uncompensated Baro-VNAV systems, procedure NA below -21°C (-5°F) or above 42°C (107°F). DME/DME RNP 0.3 NA. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 9500 direct JOGON and left turn via 051° track to SAKKO and hold, continue climb-in-hold to 9500.

AWOS-3 134.425	SEATTLE CENTER 128.15 257.75	UNICOM 123.0 (CTAF)
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7 NM Holding Pattern		FOMBO	9500		JOGON	051° track	SAKKO
7000		341°	161°	161°	5400	*1.2 NM to RW16	RW16
GS 3.00° TCH 50		5400	*LNAV only				
		7 NM	4.8 NM	1.2 NM			
CATEGORY	A	B	C	D			
LPV DA	3682-1		250 (300-1)				
LNAV/VNAV DA	3809-1½		377 (400-1½)				
LNAV MDA	3840-1		408 (400-1)		3840-1¼ 408 (400-1¼)		
CIRCLING	3940-1		3980-1		4000-1½		4040-2
	480 (500-1)		520 (600-1)		540 (600-1½)		580 (600-2)

VORTAC DSD 117.6 Chan 123	APP CRS 136°	Rwy Idg TDZE Apt Elev	5200 3432 3460
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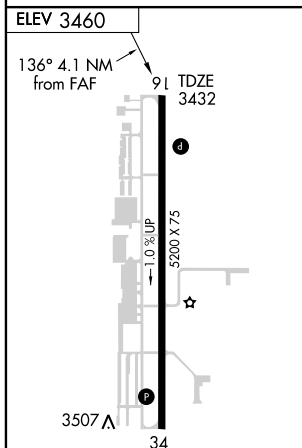
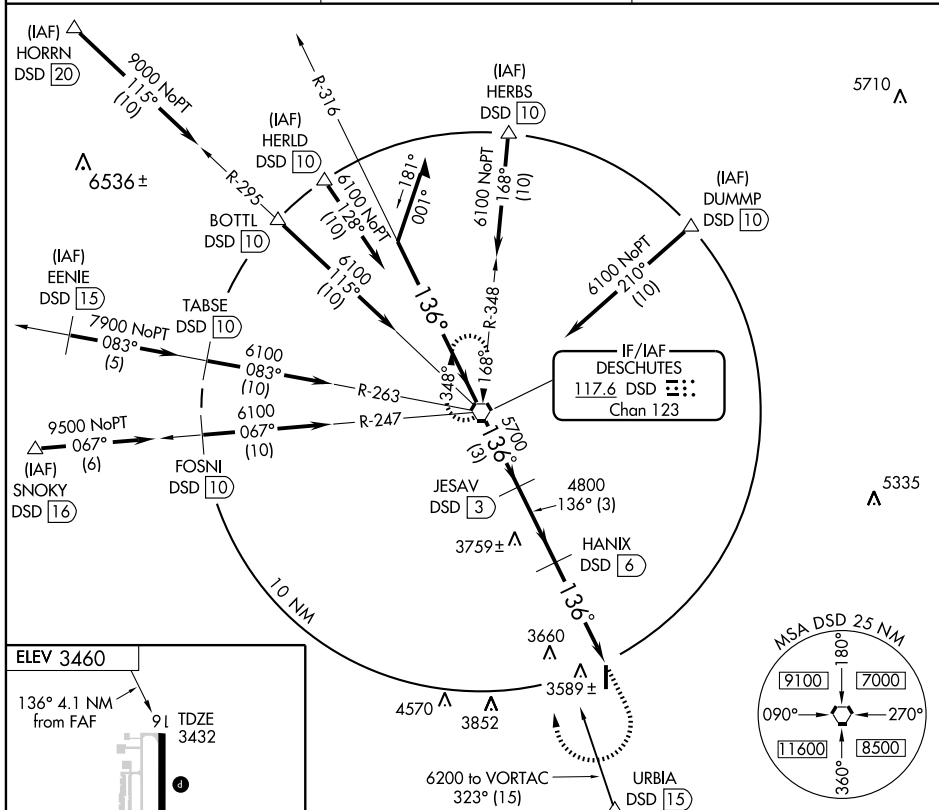
VOR/DME RWY 16

BEND MUNI (BDN)

NA When local altimeter setting not received, use Redmond altimeter setting and increase all MDAs 80 feet, increase S-16 Cat D visibility $\frac{1}{4}$ mile, and circling Cat C visibility $\frac{1}{4}$ mile. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4600 then climbing right turn to 7000 direct DSD VORTAC and hold.

AWOS-3 134.425	SEATTLE CENTER 128.15 257.75	UNICOM 123.0 (CTAF)
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VORTAC				
Remain within 10 NM				
<div> <div>6100</div> <div>316°</div> <div>136°</div> <div>6100</div> <div>136°</div> <div>5700</div> <div>136°</div> <div>4800</div> <div>3.09°</div> <div>TCH 50</div> <div>3 NM</div> <div>3 NM</div> <div>4.1 NM</div> </div>				
<div> <div>JESAV DSD 3</div> <div>HANIX DSD 6</div> <div>DSD 10.1</div> <div>4600</div> <div>7000</div> <div>DSD 117.6</div> </div>				
CATEGORY	A	B	C	D
S-16	3840-1	408 (400-1)	3840-1 $\frac{1}{4}$	408 (400-1 $\frac{1}{4}$)
CIRCLING	3940-1 480 (500-1)	3980-1 520 (600-1)	4000-1 $\frac{1}{2}$ 540 (600-1 $\frac{1}{2}$)	4040-2 580 (600-2)

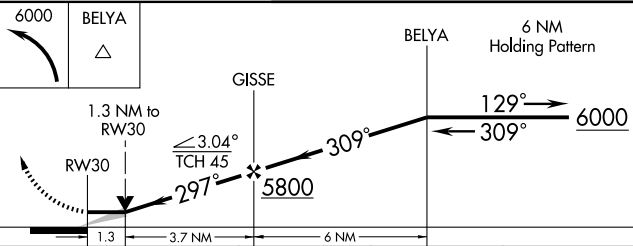
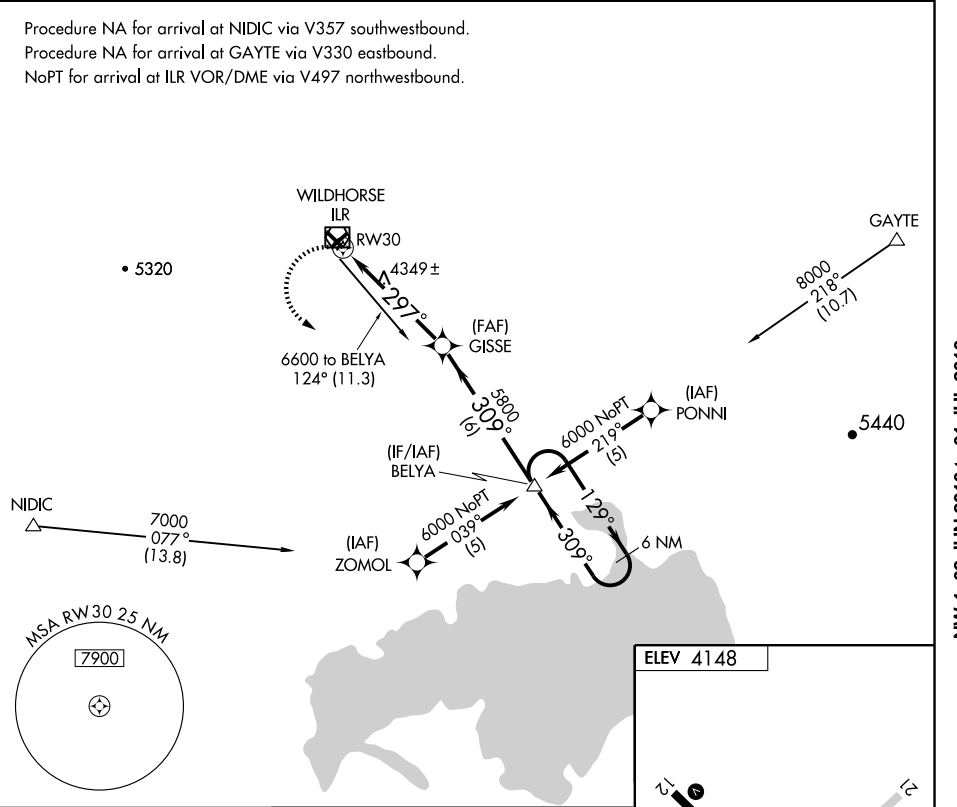
▼

▲ NA

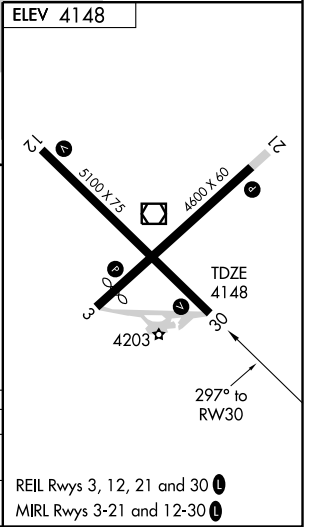
DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing left turn to 6000 direct BELYA and hold.

ASOS 135.575	MC MINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
RNAV MDA	4600-1	452 (500-1)	4600-1½ 452 (500-1½)	4600-1½ 452 (500-1½)
CIRCLING	4600-1 452 (500-1)	4680-1 532 (600-1)	4680-1½ 532 (600-1½)	4720-2 572 (600-2)

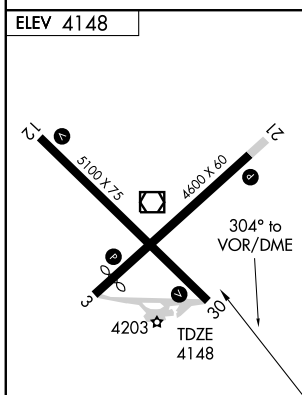
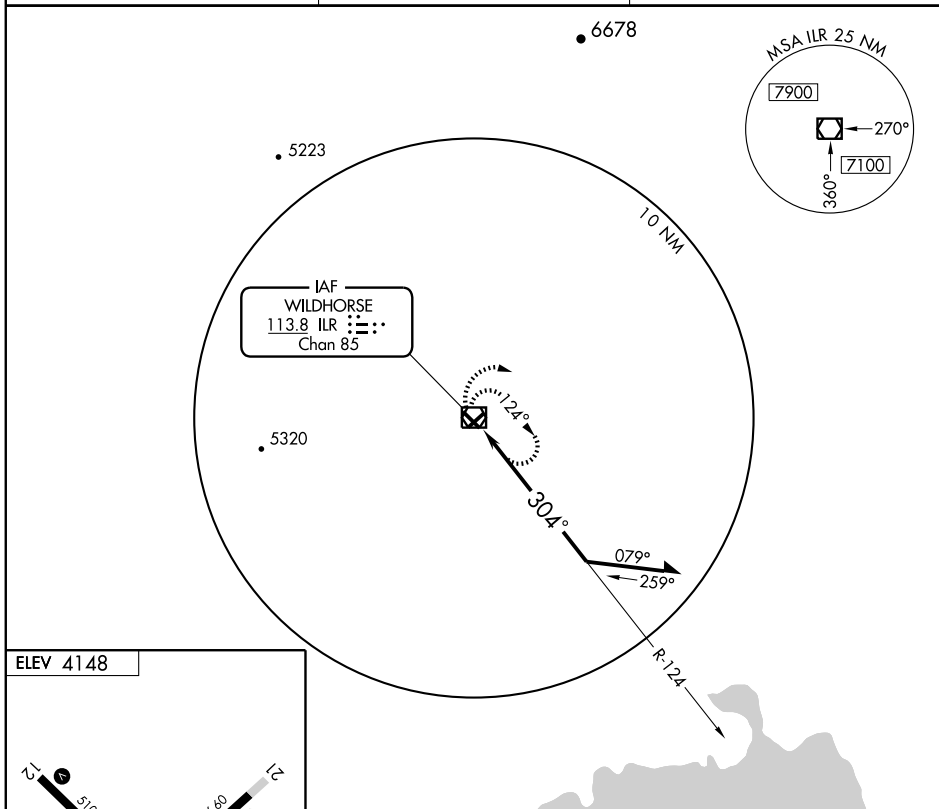


NW-1. 03 JUN 2010 to 01 JUL 2010

VOR/DME ILR 113.8 Chan 85	APP CRS 304°	Rwy Idg 5100 TDZE 4148 Apt Elev 4148
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
VOR RWY 30
BURNS MUNI (BNO)

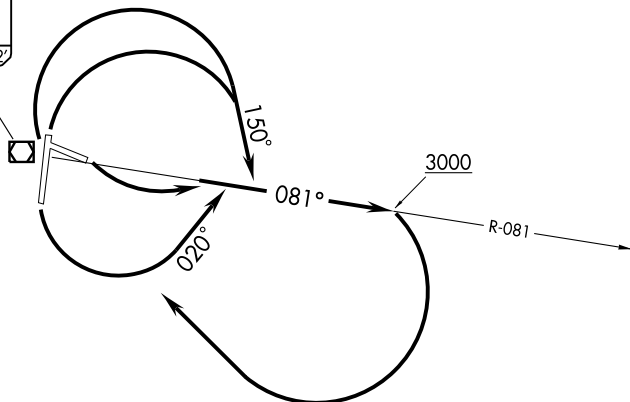
		MISSED APPROACH: Climbing right turn to 8000 in ILR VOR/DME holding pattern.	
ASOS 135.575	MC MINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF) 0	

[illegible]REIL Rwy's 3, 12, 21 and 30 **L**MIRL Rwy 3-21 and 12-30 **L**

CORVALLIS ONE DEPARTURE

AWOS-3 135.775
 CASCADE DEP CON ★
 127.5 348.7
 CTAF 123.0
 SEATTLE CENTER
 125.8

CORVALLIS
 115.4 CVO 
 Chan 101
 N44°29.97'-W123°17.62'



TAKEOFF MINIMUMS

Rwy 9, 200-1 or standard with minimum climb of 245' per NM to 500.

Rwys 17/35, standard.

Rwy 27, standard with minimum climb of 310' per NM to 2300.

TAKEOFF OBSTACLE NOTES

Rwy 9: Multiple trees and railroad beginning 549' from DER, 254' left of centerline, up to 153' AGL/383' MSL.

Multiple trees and railroad beginning 670' from DER, 5' right of centerline, up to 135' AGL/380' MSL.

Rwy 27: OL on GS 409' from DER, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35: Multiple trees beginning 470' from DER, 544' left of centerline, up to 36' AGL/276' MSL.

Tree 2.3 NM from DER, 1976' left of centerline, 128' AGL/607' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climbing left turn to 3000 via CVO R-081, thence. . .

TAKE-OFF RUNWAY 17: Climbing left turn to 3000 via heading 020° and CVO R-081, thence. . .

TAKE-OFF RUNWAYS 27 and 35: Climbing right turn to 3000 via heading 150° and CVO R-081, thence. . .

.... climbing right turn to 4000 direct CVO VOR/DME. Continue climb on course to MEA for route of flight.

LOST COMMUNICATIONS: If not in contact with ATC upon reaching 3000', continue climb to assigned altitude direct CVO VOR/DME. Thence via assigned route of flight.

ILS RWY 17

CORVALLIS MUNI (CVO)

LOC I-CVO	APP CRS	Rwy Idg	5900
111.9	169°	TDZE	244
		Apt Elev	246



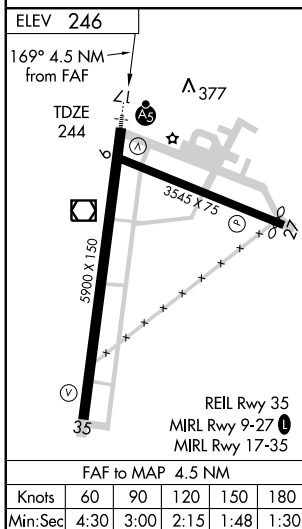
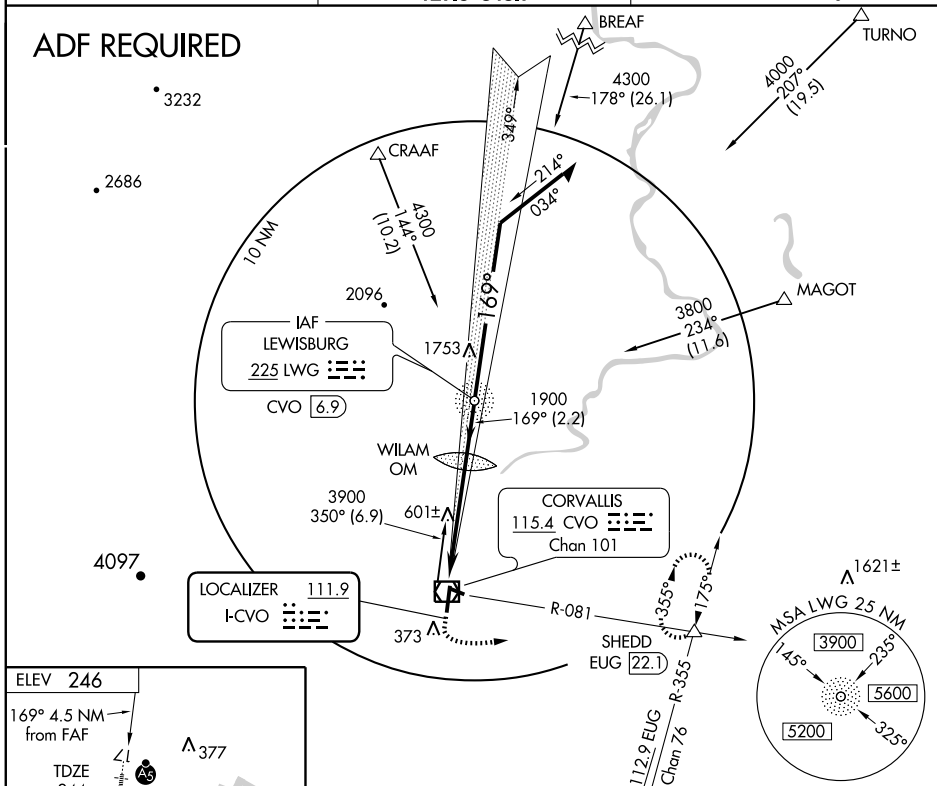
MALSR



MISSED APPROACH: Climb to 900 then climbing left turn to 3000 via the CVO R-081 to SHEDD Int and hold.

AWOS-3 135.775	CASCADE APP CON* 127.5 348.7	UNICOM 123.0 (CTAF) 0
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ADF REQUIRED



900	3000	SHEDD	LWG NDB	Remain within 10 NM
CVO R-081	CVO R-081	△	CVO 6.9	
1900*	2500*	3300	3700	GS 3.00° TCH 45
4.5 NM	2.2 NM			
CATEGORY	A	B	C	D
S-ILS 17	444-½ 200 (200-½)			
S-LOC 17	860-½ 616 (700-½)		860-1¼ 616 (700-1¼)	860-1½ 616 (700-1½)
CIRCLING	860-1 614 (700-1)		860-1¾ 614 (700-1¾)	880-2 634 (700-2)

NDB LWG 225	APP CRS 170°	Rwy Idg TDZE Apt Elev	5900 244 246
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NDB RWY 17

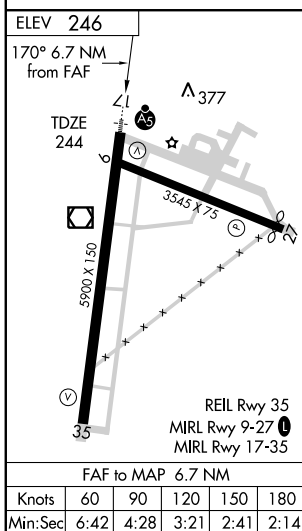
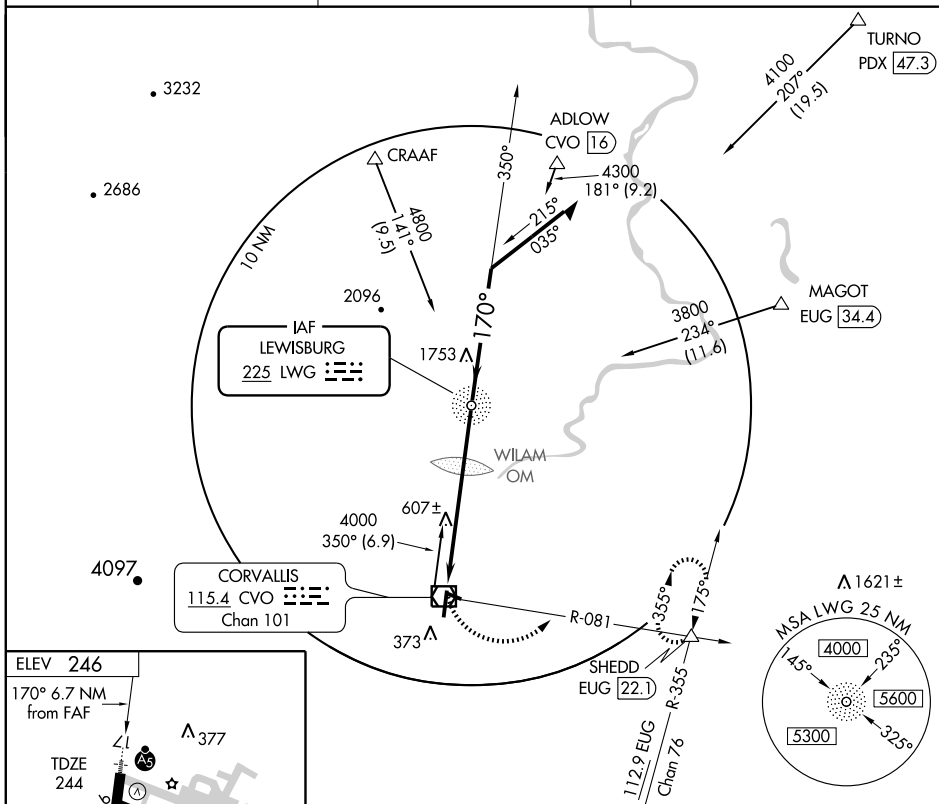
CORVALLIS MUNI (CVO)











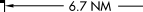
NA	MALSR 	MISSED APPROACH: Climbing left turn to 3000 via the CVO R-081 to SHEDD Int/EUG 22.1 DME and hold.
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AWOS-3
135.775

CASCADE APP CON ★
127.5 348.7

UNICOM
123.0 (CTAF)



<div>3000</div> <div></div>		<div>SHEDD</div> <div></div>	<div>NDB</div> <div></div>		<div>Remain within 10 NM</div>	
<div></div> <div></div>		<div>350°</div> <div></div>		<div>3700</div> <div></div>		
<div>2500</div> <div></div>		<div>170°</div> <div></div>		<div>2500</div> <div></div>		
<div>6.7 NM</div> <div></div>						
CATEGORY	A		B	C	D	
S-17	960-3/4 716 (800-3/4)			960-1 1/2 716 (800-1 1/2)	960-2 716 (800-2)	
CIRCLING	960-1 714 (800-1)			960-2 714 (800-2)	960-2 1/4 714 (800-2 1/4)	

WAAS CH 78311 W17A	APP CRS 169°	Rwy Idg 5900 TDZE 248 Apt Elev 250
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RNAV (GPS) RWY 17
CORVALLIS MUNI (CVO)

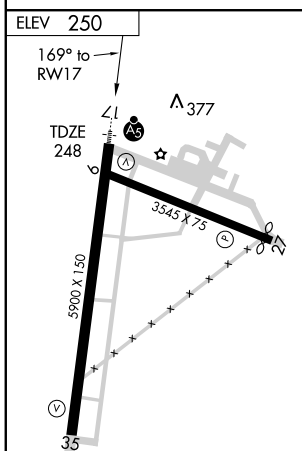
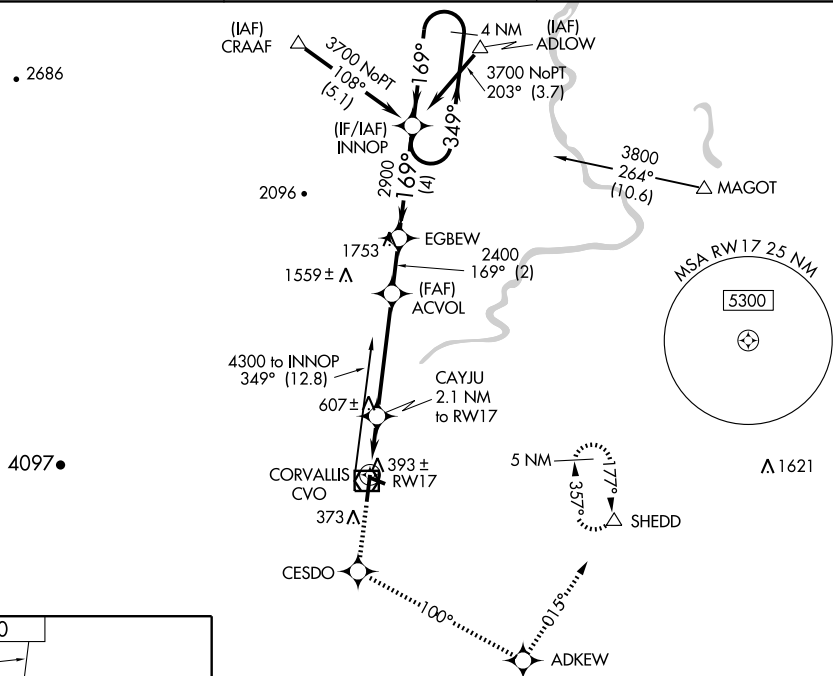
T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA. Inoperative table does not apply to LNAV Cats A and B. For inoperative MALSR increase LNAV Cats C and D visibility to 1¼.

MALSR



MISSED APPROACH: Climb to 3000 direct CESDO and via 100° track to ADKEW and via 015° track to SHEDD and hold.

AWOS-3 135.775	CASCADE APP CON ★ 127.5 348.7	UNICOM 123.0 (CTAF) ①
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3000 ↑	CESDO ✧	100° track	ADKEW ✧	015° track	SHEDD △	VGSI and RNAV glidepath not coincident. 4 NM Holding Pattern	
* LNAV only		CAYJU 2.1 NM to RW17	ACVOL	EGBEW	INNOP	169° → 3700 ← 169° 349° →	
RW17		960*	2400	2900	GS 3.00° TCH 45		
2.1		4.4 NM	2 NM	4 NM			
CATEGORY	A	B	C	D			
LPV DA		582-1	334 (400-1)				
LNAV/ VNAV	DA	670-1	422 (500-1)				
LNAV MDA		660-1	412 (500-1)				
CIRCLING	720-1 470 (500-1)	720-1½ 470 (500-1½)	900-2 650 (700-2)				

REIL Rwy 35
MIRL Rwy 9-27 **L**
MIRL Rwy 17-35

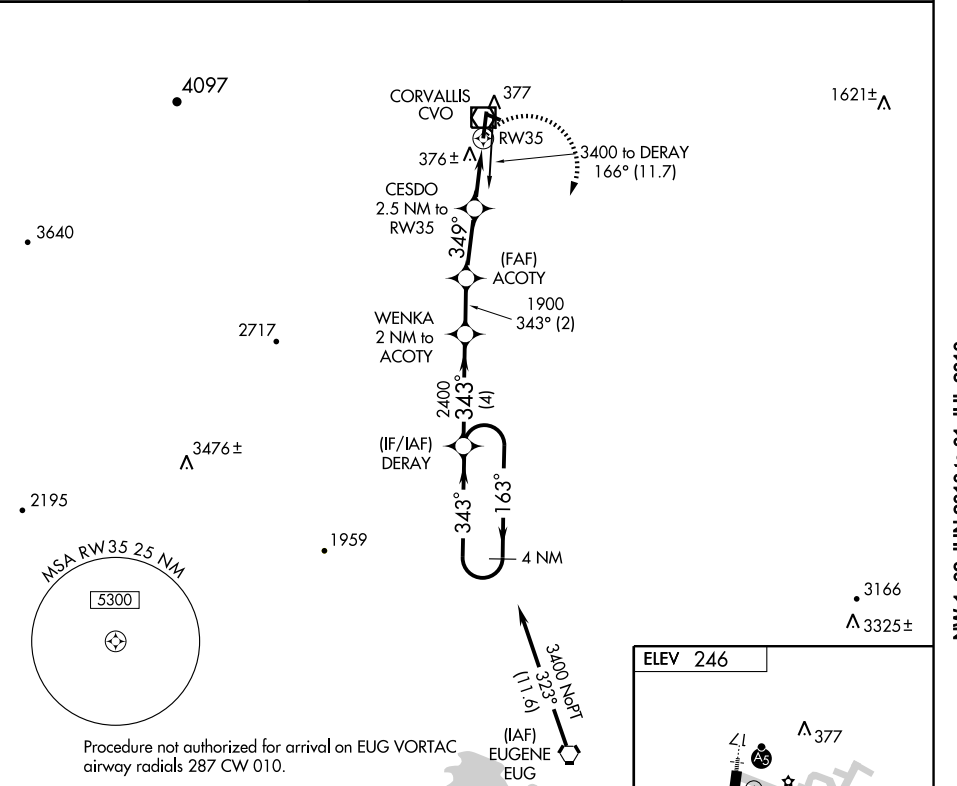
▽

△ NA

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climbing right turn to 3400 direct DERAY WP and hold.

AWOS-3 135.775	CASCADE APP CON ★ 127.5 348.7	UNICOM 123.0 (CTAF) 0
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


ELEV 246				
TDZE 246				
35				
5900 X 150				
349° to RW35				
REIL Rwy 35				
MIRL Rwy 9-27				
MIRL Rwy 17-35				

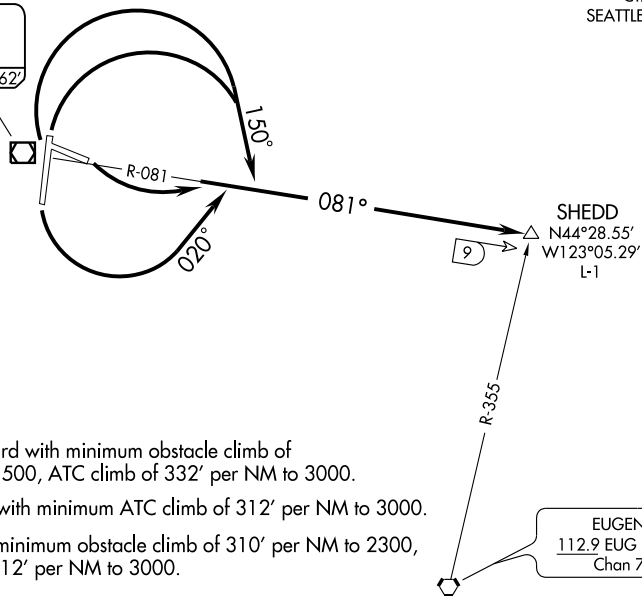
CATEGORY	A	B	C	D
RNAV MDA	660-1	414 (500-1)	660-1½	414 (500-1½)
CIRCLING	720-1	474 (500-1)	720-1½ 474 (500-1½)	840-2 594 (600-2)

NW-1. 03 JUN 2010 to 01 JUL 2010

SHEDD ONE DEPARTURE

CORVALLIS
115.4 CVO 
Chan 101
N44°29.97'-W123°17.62'

AWOS-3 135.775
CASCADE DEP CON ★
127.5 348.7
CTAF 123.0
SEATTLE CENTER
125.8

TAKEOFF MINIMUMS

Rwy 9, 200-1 or standard with minimum obstacle climb of 245' per NM to 500, ATC climb of 332' per NM to 3000.

Rwys 17/35, standard with minimum ATC climb of 312' per NM to 3000.

Rwy 27, standard with minimum obstacle climb of 310' per NM to 2300, ATC climb of 312' per NM to 3000.

TAKEOFF OBSTACLE NOTES

Rwy 9: Multiple trees and railroad beginning 549' from DER, 254' left of centerline, up to 153' AGL/383' MSL.

Multiple trees and railroad beginning 670' from DER, 5' right of centerline, up to 135' AGL/380' MSL.

Rwy 27: OL on GS 409' from DER, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35: Multiple trees beginning 470' from DER, 544' left of centerline, up to 36' AGL/276' MSL.

Tree 2.3 NM from DER, 1976' left of centerline, 128' AGL/607' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climbing left turn to 3000 via CVO R-081 to SHEDD INT, thence. . .

TAKE-OFF RUNWAY 17: Climbing left turn to 3000 via heading 020° and CVO R-081 to SHEDD INT, thence. . .

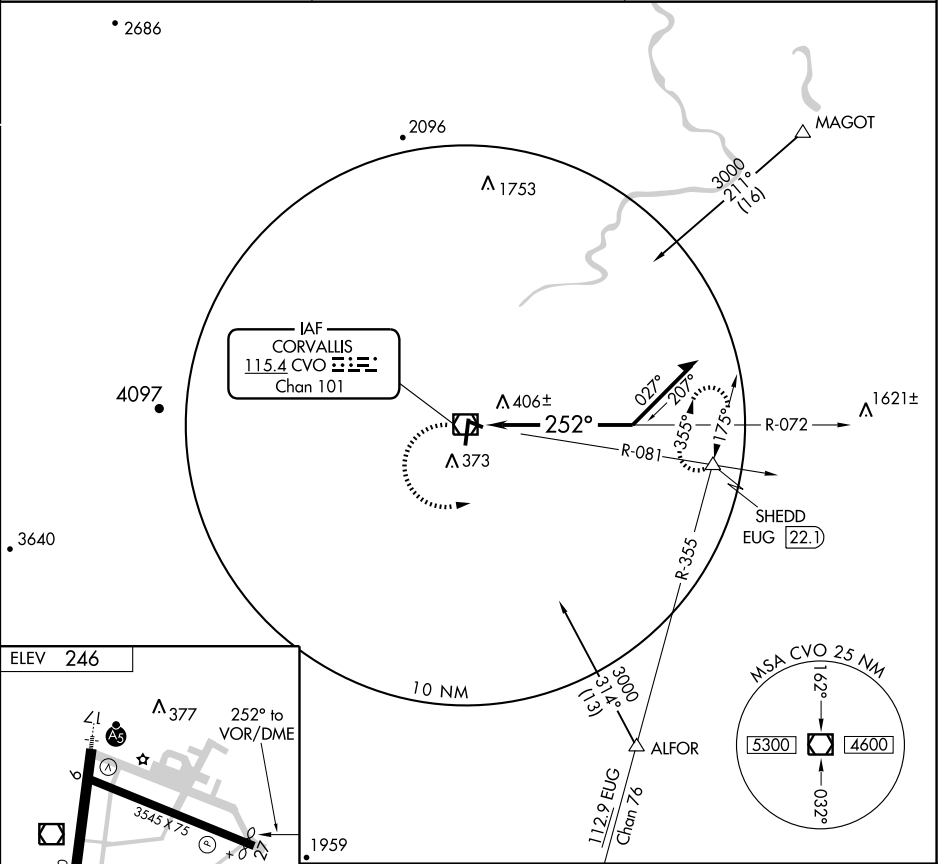
TAKE-OFF RUNWAYS 27 and 35: Climbing right turn to 3000 via heading 150° and CVO R-081 to SHEDD INT, thence. . .

. . . via assigned route/clearance.

LOST COMMUNICATIONS: If not in contact with ATC upon reaching 3000', continue climb to assigned altitude direct CVO VOR/DME. Thence via assigned route of flight.

MISSED APPROACH: Climbing left turn to 3000 via CVO
VOR/DME R-081 to SHEDD Int/EUG 22.1 DME and hold.

AWOS-3 135.775	CASCADE APP CON* 127.5 348.7	UNICOM 123.0 (CTAF) 0
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3000
CVO
R-081

SHEDD
△

VOR/DME
Remain within 10 NM

072°
2900
252°

REIL Rwy 35
MIRL Rwy 9-27
MIRL Rwy 17-35

CATEGORY	A	B	C	D
CIRCLING	1400-1¼ 1154 (1200-1¼)	1400-1½ 1154 (1200-1½)	1400-3	1154 (1200-3)

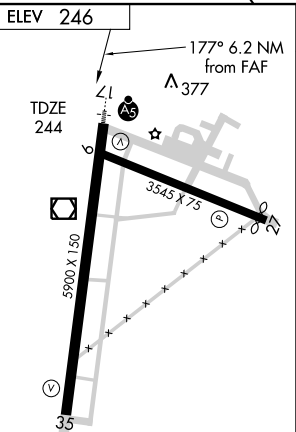
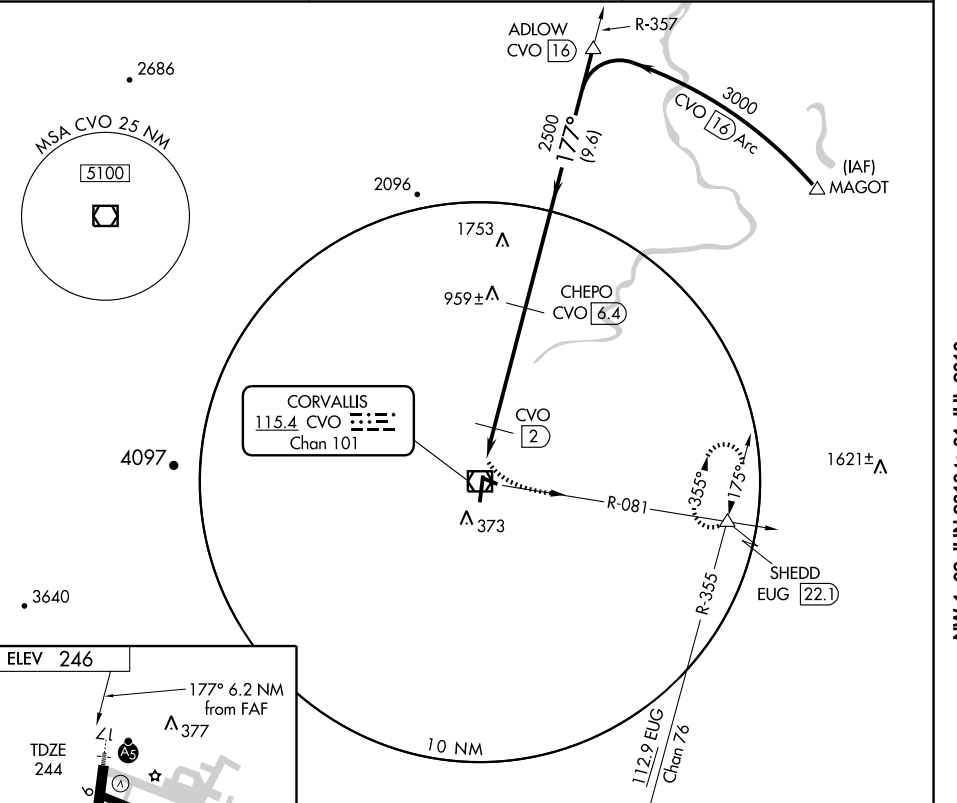
VOR/DME CVO	APP CRS	Rwy Idg	5900
115.4	177°	TDZE	244
Chan 101		Apt Elev	246

For inoperative MALSR, increase S-17 Cat. D to 1 1/4 mile.

MALSR

MISSED APPROACH: Climbing left turn to 3000 via CVO R-081 to SHEDD Int and hold.

AWOS-3 135.775	CASCADE APP CON ★ 127.5 348.7	UNICOM 123.0 (CTAF) 0
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REIL Rwy 35
MIRL Rwy 9-27
MIRL Rwy 17-35

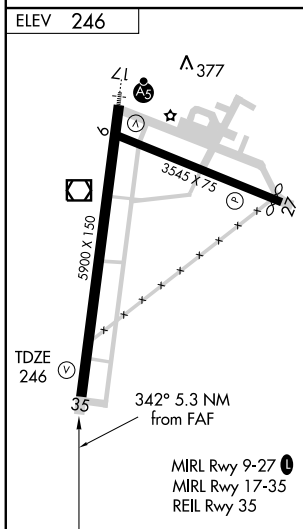
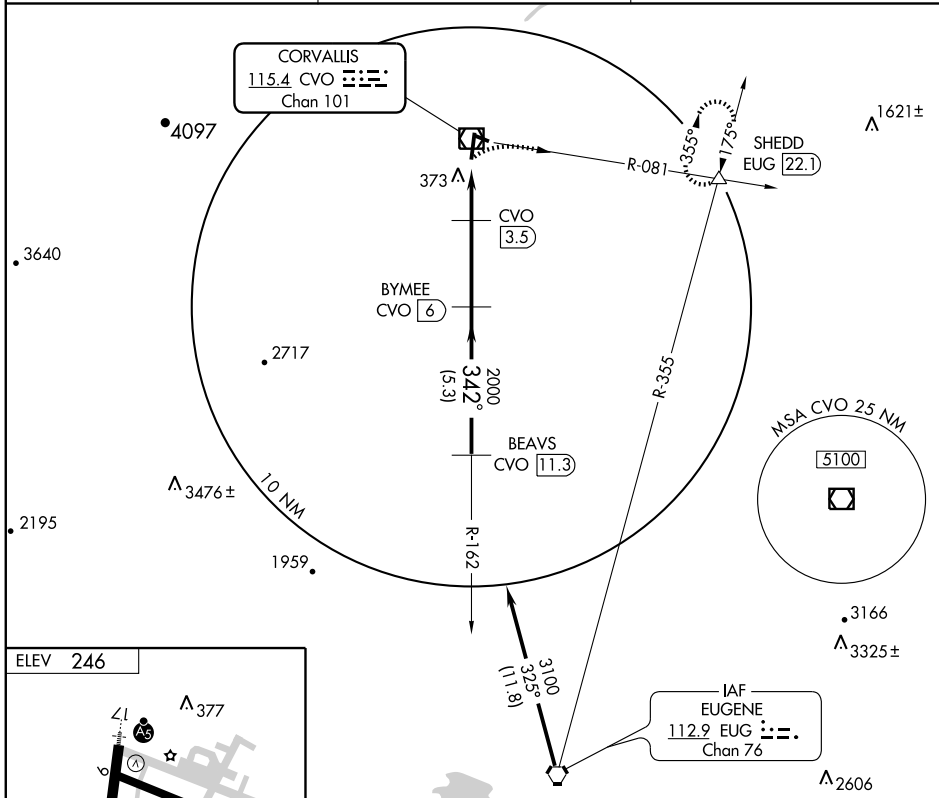
3000 CVO R-081		SHEDD		ADLOW CVO 16	
VOR/DME		CHEPO CVO 6.4		3000	
CVO 0.5		CVO 2		2500	
900		177°		Procedure Turn NA	
0.3		1.5 NM		4.4 NM	
				9.6 NM	
CATEGORY	A	B	C	D	
S-17	660-1/2	416 (500-1/2)	660-3/4 416 (500-3/4)	660-1 416 (500-1)	
CIRCLING	720-1	474 (500-1)	720-1 1/2 474 (500-1 1/2)	880-2 634 (700-2)	

NW-1. 03 JUN 2010 to 01 JUL 2010

VOR/DME CVO	APP CRS	Rwy Idg	5900
115.4	342°	TDZE	246
Chan 101		Apt Elev	246

VOR/DME RWY 35 CORVALLIS MUNI (CVO)

AWOS-3 135.775	CASCADE APP CON ★ 127.5 348.7	UNICOM 123.0 (CTAF) 0



3000 CVO R-081 SHEDD △		BYMEE CVO (6) CVO (3.5) VOR/DME CVO (0.7) 342° 2000 1000 3100 Procedure Turn NA	
CATEGORY A S-35 CIRCLING		B C D 640-1 394 (400-1) 720-1 474 (500-1) 720-1½ 474 (500-1½) 640-1¼ 394 (400-1¼) 880-2 634 (700-2)	

AL-140 (FAA)

123°12.5'W

NW-1. 03 JUN 2010 to 01 JUL 2010

EUGENE SEVEN DEPARTURE

SL-140 (FAA)

EUGENE/MAHLON SWEET FIELD (EUG)

EUGENE, OREGON

ATIS 125.225

GND CON

121.7 269.5

EUGENE TOWER ★

118.9 (CTAF) 371.9 (Rwy 16R-34L)

124.15 371.9 (Rwy 16L-34R)

CASCADE DEP CON

119.6 348.7

NEWPORT
117.1 ONP
Chan 118
N44°34.52' - W124°03.64'
L-1, H-1

CORVALLIS
115.4 CVO
Chan 101
N44°29.97' - W123°17.62'
L-1

NEWBERG
117.4 UBG
Chan 121
N45°21.19' - W122°58.69'
L-1, H-1

BATTLEGROUND
116.6 BTG
Chan 113
N45°44.87' - W122°35.49'
L-1, H-1

TAKE-OFF OBSTACLE NOTES

Rwy 16R: Tree 1992' from DER, 832' left of centerline, 50' AGL/419' MSL.

Rwy 16L: Multiple trees and power poles beginning 872' from DER, 35' right of centerline, up to 50' AGL/437' MSL.

Multiple trees and power poles beginning 890' from DER, 77' left of centerline, up to 50' AGL/433' MSL.

Rwy 34R: Multiple trees beginning 2869' from DER, 186' right of centerline, up to 50' AGL/447' MSL.
Tree 2535' from DER, 652' left of centerline, 50' AGL/428' MSL.

NORTH BEND
112.1 OTH
Chan 58
N43°24.93' - W124°10.11'
L-1

EUGENE
112.9 EUG
Chan 76
N44°07.25' - W123°13.37'
L-1, H-1

DESCHUTES
117.6 DSD
Chan 123
N44°15.17' - W121°18.21'
L-13, H-1

ROSEBURG
108.2 RBG
Chan 19
N43°10.95' - W123°21.13'
L-1

ROGUE VALLEY
113.6 OED
Chan 83
N42°28.77' - W122°54.78'
L-2, H-3

KLAMATH FALLS
115.9 LMT
Chan 106
N42°09.19' - W121°43.65'
L-2, H-3

TAKE-OFF MINIMUMS

Rwy 16L/16R: Standard with minimum climb of 305' per NM to 6000.

Rwy 34L/34R: Standard with minimum climb of 320' per NM to 6000.

NOTE: Aircraft taxiing beyond Rwy 16R departure end 500' left of centerline.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

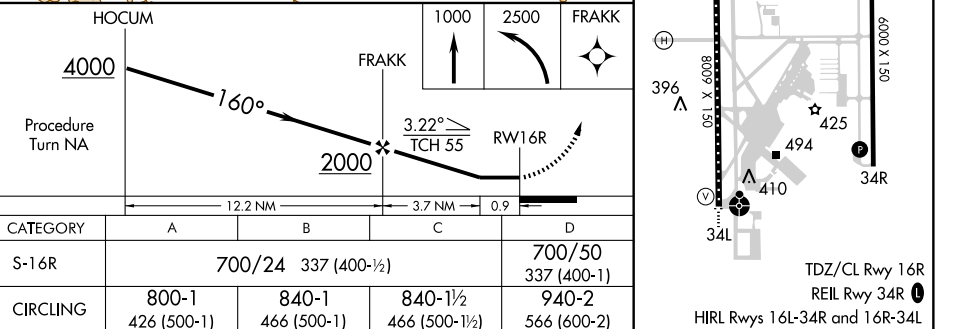
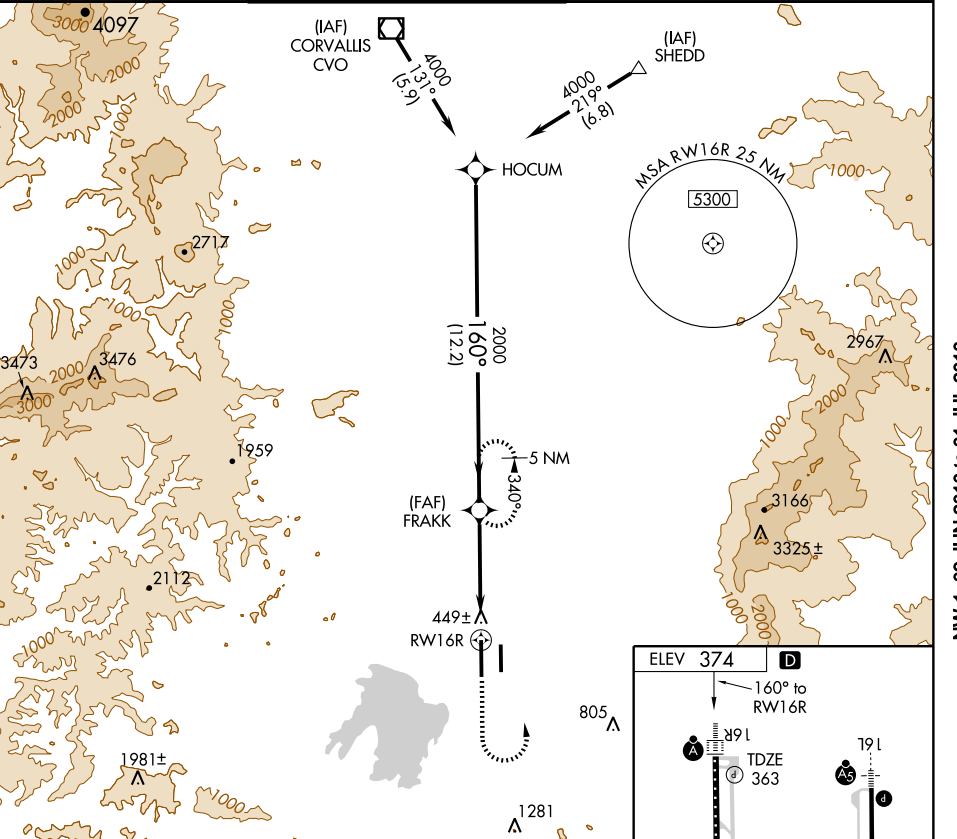
TAKE-OFF RUNWAYS 16L and 16R: Climb via heading 160° (or ATC assigned heading) for vectors to assigned route/fix

TAKE-OFF RUNWAYS 34L and 34R: Climb via heading 340° (or ATC assigned heading) for vectors to assigned route/fix


. . . . maintain 9000 or assigned altitude, expect filed altitude/flight level five minutes after departure.

LOST COMMUNICATIONS: If not in contact with ATC after reaching 3000', continue climb to assigned altitude direct EUG VORTAC, climb in EUG VORTAC holding pattern (hold N, RT, 175° inbound) to cross EUG VORTAC at or above MEA before proceeding enroute.

<div> <div> <div>▼</div> <div>NA</div> </div> <div>Inoperative table does not apply to S-16R Cat D.</div> </div>		<div> <div>ALSF-2</div> <div> <div> <div>⬆</div> <div>⬆</div> <div>⬆</div> </div> </div> </div>	<div>MISSED APPROACH: Climb to 1000 then climbing left turn to 2500 direct FRAKK WP and hold.</div>		
<div> <div>ATIS</div> <div>125.225</div> </div>	<div> <div>CASCADE APP CON</div> <div>119.6 348.7</div> </div>	<div> <div>EUGENE TOWER★</div> <div> <div>118.9 (CTAF) 0 371.9 (Rwy 16R/34L)</div> <div>124.15 371.9 (Rwy 16L/34R)</div> </div> </div>	<div> <div>GND CON</div> <div>121.7 269.5</div> </div>	<div> <div>CLNC DEL</div> <div>121.7 269.5</div> </div>	<div> <div>UNICOM</div> <div>122.95</div> </div>

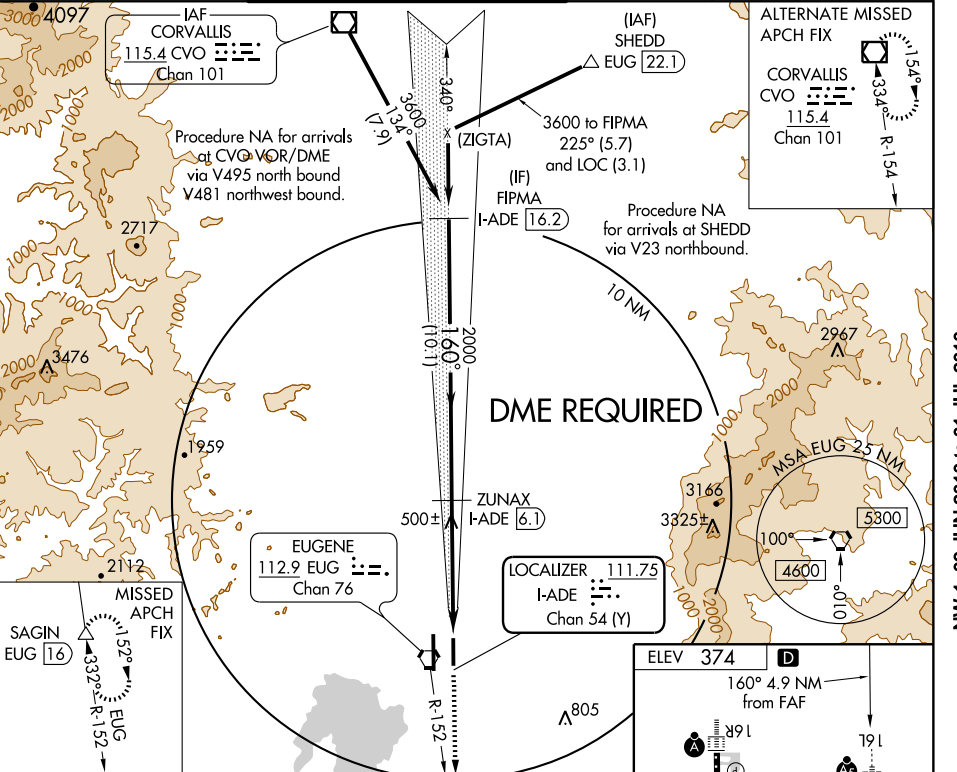


▲ If local altimeter setting not received, use Corvallis altimeter setting and increase all DAs 70 feet, and all MDAs 80 feet. VDP NA when using Corvallis altimeter setting.

MALSR


MISSED APPROACH: Climb to 5200 via heading 160° and EUG VORTAC R-152 to SAGIN/EUG 16 DME and hold, continue climb-in-hold to 5200.

ATIS	CASCADE APP CON	EUGENE TOWER ★	GND CON	CLNC DEL	UNICOM
125.225	119.6 348.7	118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	121.7 269.5	121.7 269.5	122.95



FIPMA I-ADE 16.2

VGSI and ILS glidepath not coincident. Use I-ADE DME when on the localizer course.

5200

hdg 160°

EUG R-152 112.9

SAGIN \triangle

3600

160°

ZUNAX I-ADE 6.1

2000

Procedure Turn NA

10.1 NM

3.7 NM

1.2

CATEGORY	A	B	C	D
S-ILS 16L	569- $\frac{1}{2}$		200 (200- $\frac{1}{2}$)	
S-LOC 16L	800- $\frac{1}{2}$ 431 (500- $\frac{1}{2}$)		800- $\frac{3}{4}$ 431 (500- $\frac{3}{4}$)	800-1 431 (500-1)
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1 $\frac{1}{2}$ 466 (500-1 $\frac{1}{2}$)	940-2 566 (600-2)

TDZE 369

6000 X 150

396

800° X 150

34L

410

425

494

34R

TDZ/CL Rwy 16R

REIL Rwy 34R

HIRL Rws 16L-34R and 16R-34L

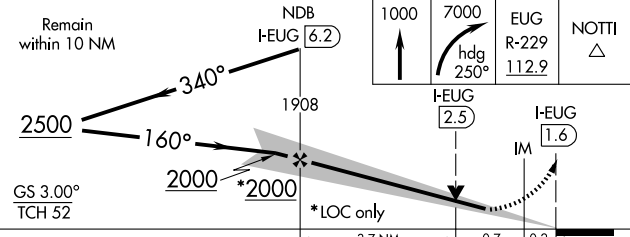
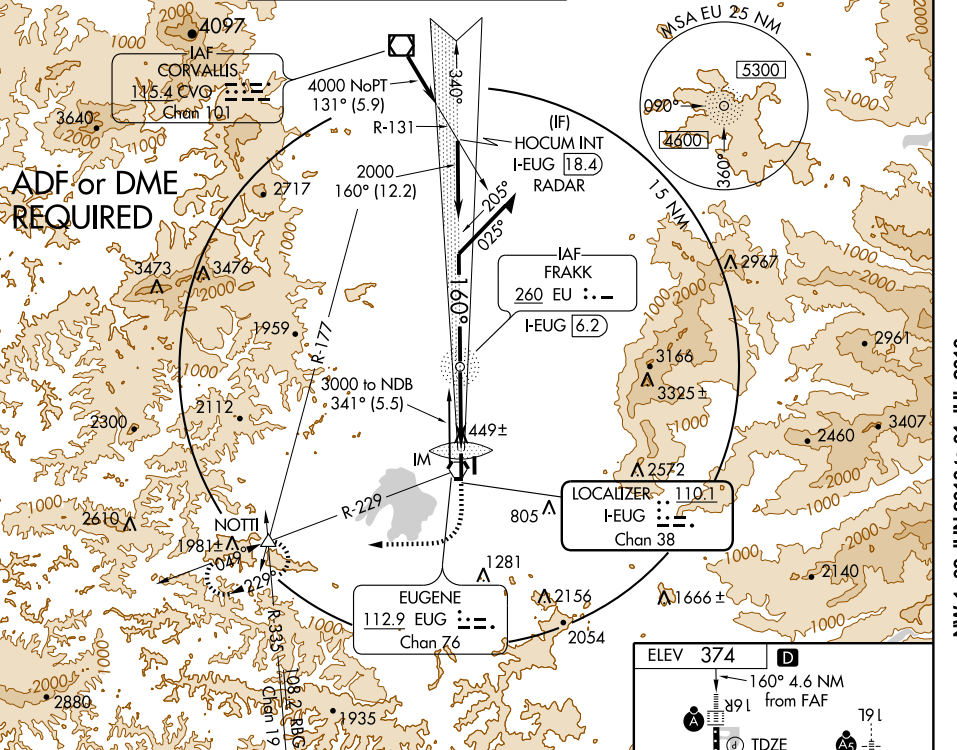
LOC/DME I-EUG	APP CRS	Rwy Idg	8009
110.1	160°	TDZE	364
Chan 38		Apt Elev	374

For inoperative ALSF-2: increase S-LOC 16R Cat D visibility to RVR 5000.

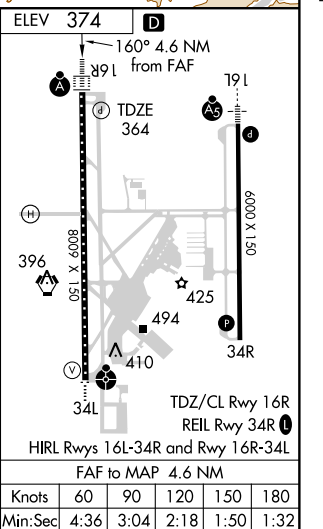


MISSED APPROACH: Climb to 1000 then climbing right turn to 7000 via heading 250° and EUG R-229 to NOTTI INT and hold, continue climb-in-hold to 7000.

ATIS	CASCADE APP CON	EUGENE TOWER ★	GND CON	CLNC DEL	UNICOM
125.225	119.6 348.7	118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	121.7 269.5	121.7 269.5	122.95



CATEGORY	A	B	C	D
S-ILS 16R	564/18 200 (200-½)			
S-LOC 16R	700/24 336 (400-½)			700/40 336 (400-¾)
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1½ 466 (500-1½)	940-2 566 (600-2)



LOC/DME F-EUG <u>110.1</u> Chan 38	APP CRS 160°	Rwy Idg 8009 TDZE 364 Apt Elev 374
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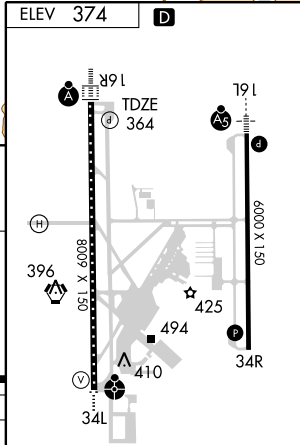
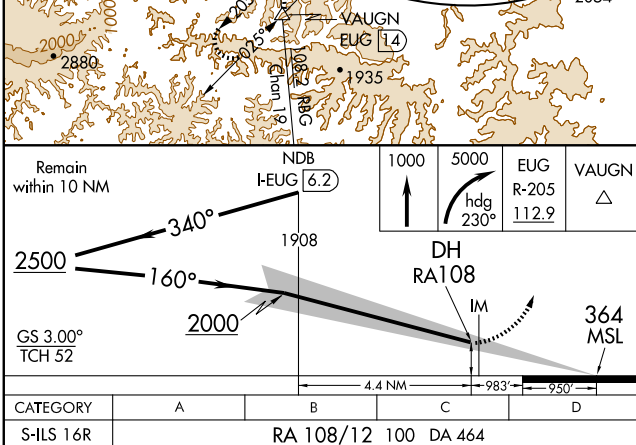
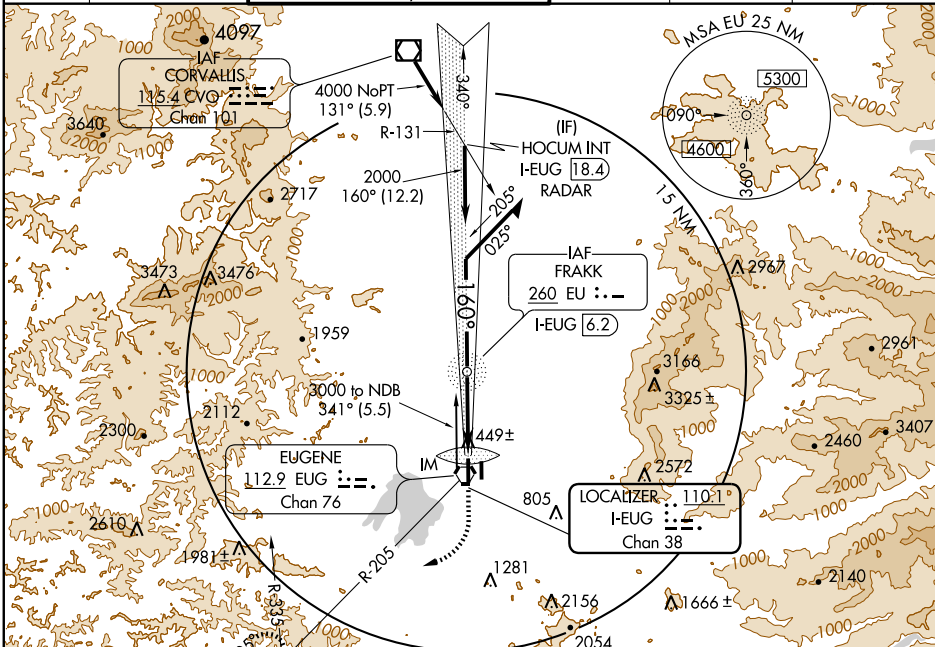
ILS RWY 16R (CAT II)
EUGENE/MAHLON SWEET FIELD (EUG)

T Cat II minimums not authorized when control tower closed.
A DME required.



MISSED APPROACH: Climb to 1000 then climbing right turn to 5000 via heading 230° and EUG R-205 to VAUGN/ EUG 14 DME and hold, continue climb-in-hold to 5000.

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

TDZ/CL Rwy 16R
REIL Rwy 34R **L**
HIRL Rwys 16L-34R and 16R-34L

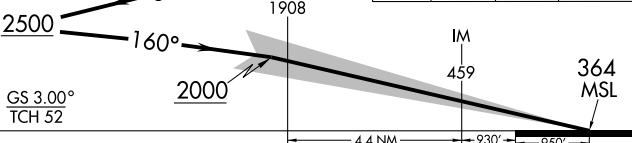
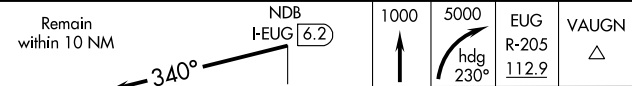
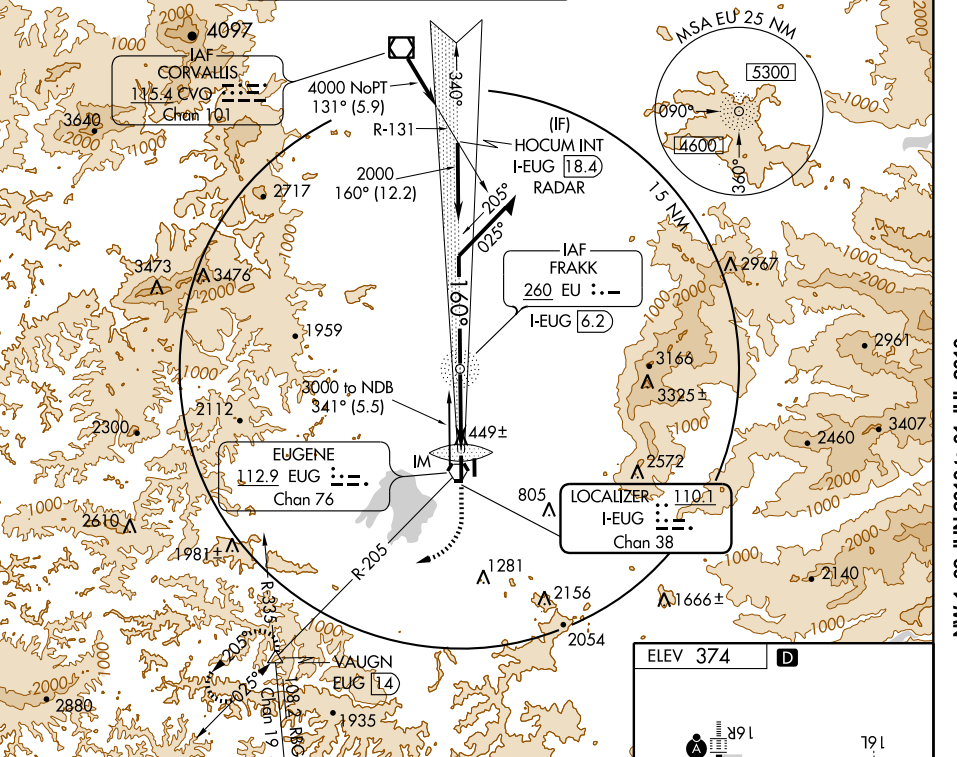
▼ Cat III minimums not authorized when control tower closed.

▲ DME required.

ALSF-2

MISSED APPROACH: Climb to 1000 then climbing right turn to 5000 via heading 230° and EUG R-205 to VAUGHN EUG 14 DME and hold, continue climb-in-hold to 5000.

ATIS	CASCADE APP CON	EUGENE TOWER★	GND CON	CLNC DEL	UNICOM
125.225	119.6 348.7	118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	121.7 269.5	121.7 269.5	122.95



CATEGORY	A	B	C	D
S-ILS 16R		CAT IIIa	RVR 07	
S-ILS 16R		CAT IIIb	RVR 06	
S-ILS 16R		CAT IIIc	NA	

NW-1. 03 JUN 2010 to 01 JUL 2010

WAAS
CH **81827**
W16A

APP CRS
160°

Rwy ldg
TDZE **369**
Apt Elev **374**

RNAV (GPS) RWY 16L

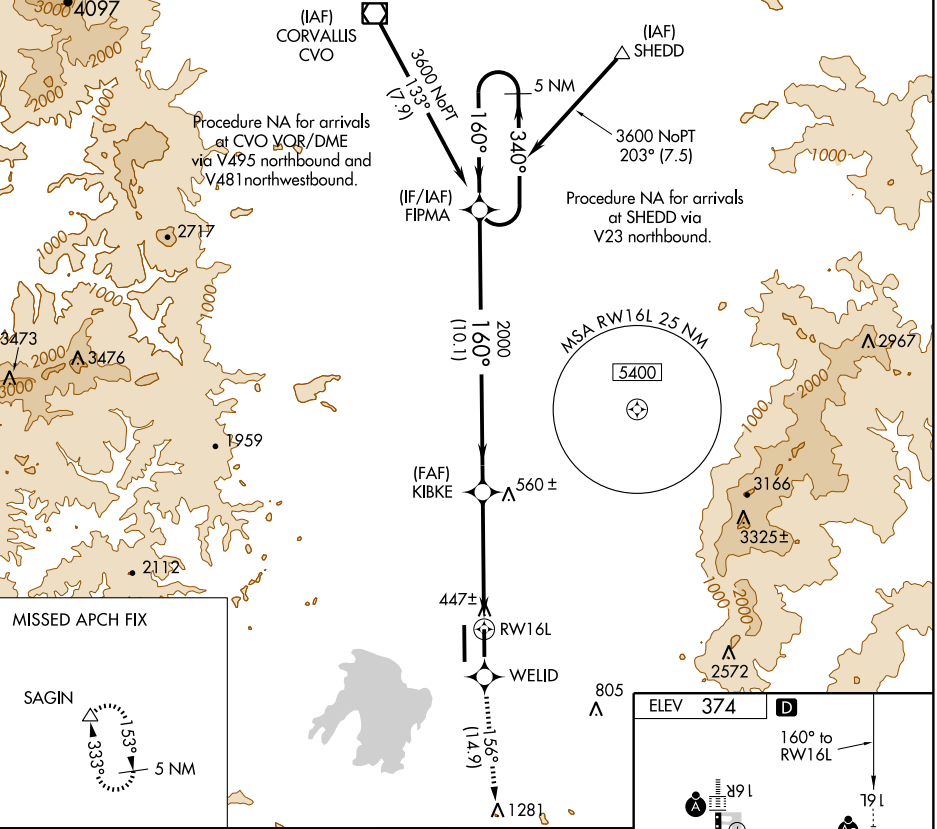
EUGENE/MAHLON SWEET FIELD (EUG)

DME/DME RNP-0.3 NA.
Baro-VNAV NA below -15°C (5°F).

MALSR

MISSED APPROACH: Climb to 4000 direct WELID and via 156° track to SAGIN and hold, continue climb-in-hold to 4000.

ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	GND CON 121.7 269.5	CLNC DEL 121.7 269.5	UNICOM 122.95
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5 NM Holding Pattern

3600

340°

160°

GS 3.00° TCH 52

FIPMA

160°

2000

10.1 NM

KIBKE

4 NM

0.9

*0.9 NM to RW16L

*LNAV only

RW16L

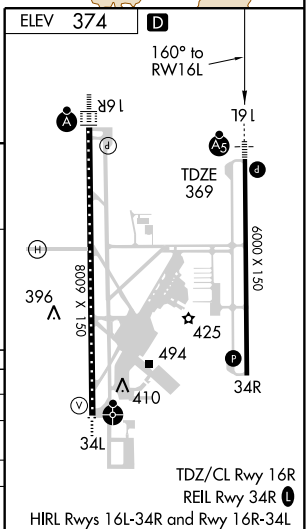
4000

WELID

156° track

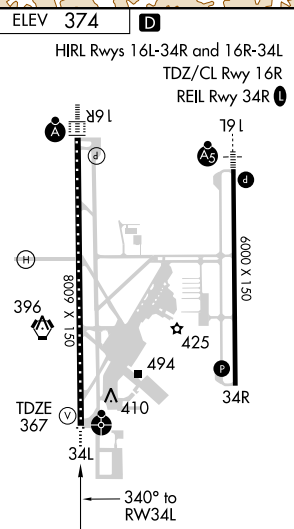
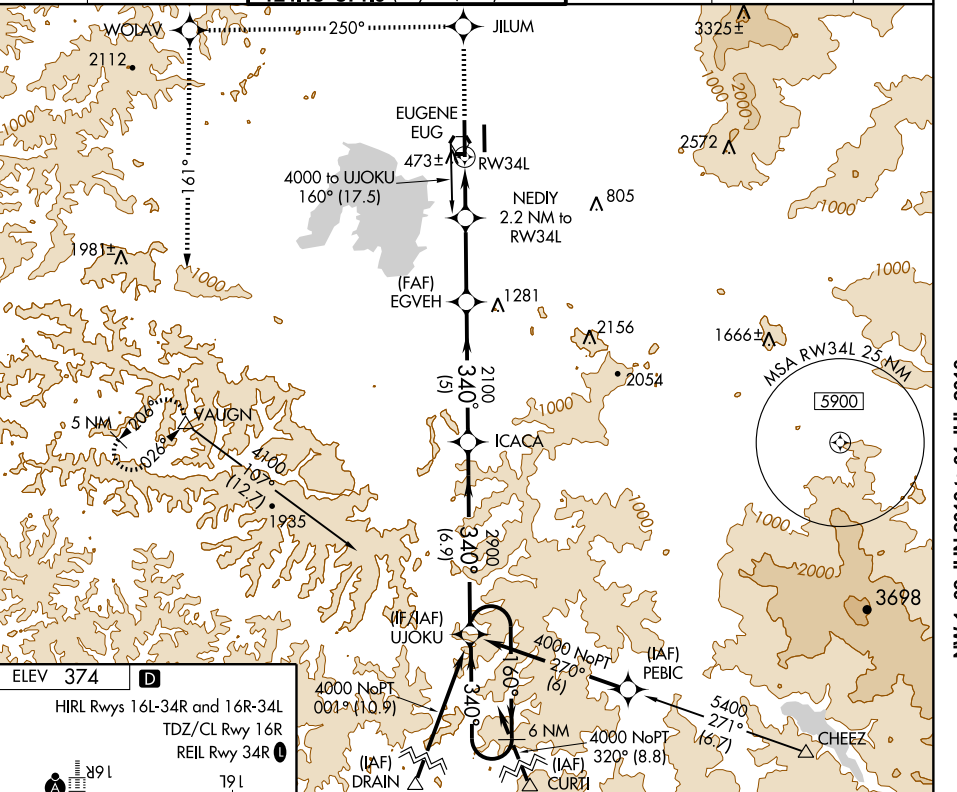
SAGIN

CATEGORY	A	B	C	D
LPV DA	669-1 300 (300-1)			
LNAV/VNAV DA	715-1¼ 346 (400-1¼)			
LNAV MDA	700-1 331 (400-1)			
CIRCLING	800-1¼ 426 (500-1¼)	840-1¼ 466 (500-1¼)	840-1½ 466 (500-1½)	940-2 566 (600-2)



NW-1, 03 JUN 2010 to 01 JUL 2010

<div><div>▼</div><div>Inoperative table does not apply to LPV and LNAV/VNAV. Baro-VNAV NA below -15°C (5°F). DME/DME RNP-0.3 NA.</div></div>		<div><div>ODALS</div><div></div></div>	<div>MISSED APPROACH: Climb to 4000 direct JILUM and via 250° track to WOLAV and 161° track to VAUGHN and hold.</div>		
<div>ATIS 125.225</div>	<div>CASCADE APP CON 119.6 348.7</div>	<div>EUGENE TOWER★ 118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)</div>	<div>GND CON 121.7 269.5</div>	<div>CLNC DEL 121.7 269.5</div>	<div>UNICOM 122.95</div>



<div>4000 JILUM</div> <div>250° track</div> <div>WOLAV</div> <div>161° track</div> <div>VAUGHN</div> <div>ICACA</div> <div>UJOKU</div> <div>6 NM Holding Pattern</div>		<div>4000 NoPT 001° (10.9)</div> <div>4000 NoPT 270° (6)</div> <div>4000 NoPT 320° (8.8)</div> <div>5400 271° (16.7)</div> <div>CHEEZ</div>		
<div>* LNAV only</div> <div>1.1 NM to RW 34L</div> <div>1.1 NM to RW 34L</div> <div>3 NM to EGVEH</div> <div>5 NM to UJOKU</div> <div>6.9 NM to UJOKU</div>		<div>NEDIY 2.2 NM to RW 34L</div> <div>EGVEH</div> <div>340°</div> <div>160°</div> <div>4000</div> <div>2900</div> <div>2100</div> <div>1120</div> <div>GS 3.00° TCH 54</div>		
CATEGORY	A	B	C	D
LPV DA	617/40		250 (300-¾)	
LNAV/ VNAV	744/60		377 (400-1¼)	
LNAV MDA	760/40		393 (400-¾)	
CIRCLING	800-1¼		760/60	
	426 (500-1¼)		393 (400-1¼)	
CIRCLING	840-1¼		940-2	
	466 (500-1¼)		566 (600-2)	

WAAS CH 81900 W34B	APP CRS 340°	Rwy Idg TDZE Apt Elev	6000 374 374
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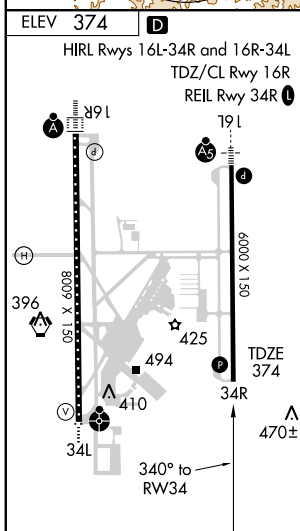
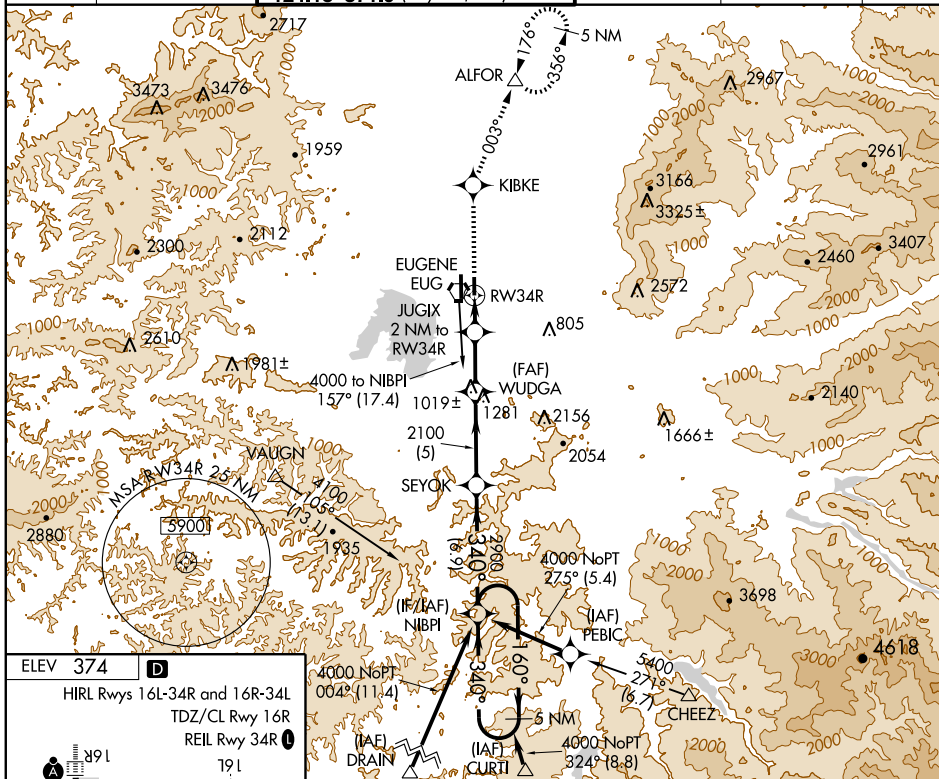
RNAV (GPS) RWY 34R

EUGENE/ MAHLON SWEET FIELD (EUG)

▽ For uncompensated Baro-VNAV systems, LNAV/VNAV NA
▲ below -15°C (5°F) or above 48°C (118°F).
 DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3000 direct KIBKE
 and via track 003° to ALFOR and hold.

ATIS	CASCADE APP CON	EUGENE TOWER ★	GND CON	CLNC DEL	UNICOM
125.225	119.6 348.7	118.9 (CTAF) 0 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	121.7 269.5	121.7 269.5	122.95



3000	KIBKE	trk 003°	ALFOR	NIBPI	5 NM Holding Pattern
*LNAV only	JUGIX	WUDGA	SEYOK	NIBPI	160° → 4000
	*1.1 2 NM to RWY 34R				← 340°
					GS 3.00° TCH 50
	1.1 NM	0.9 NM	3.2 NM	5 NM	6.9 NM
CATEGORY	A	B	C	D	
LPV DA	658-1	284 (300-1)			
LNAV/ VNAV	796-1½	422 (500-1½)			
LNAV MDA	760-1	386 (400-1)			760-1½ 386 (400-1½)
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1½ 466 (500-1½)	940-2 566 (600-2)	

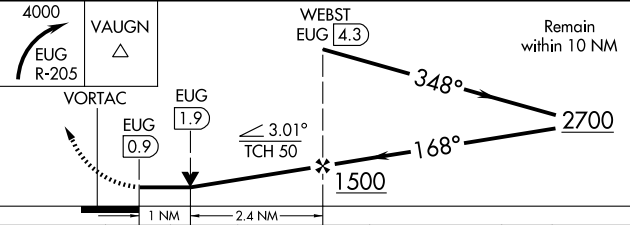
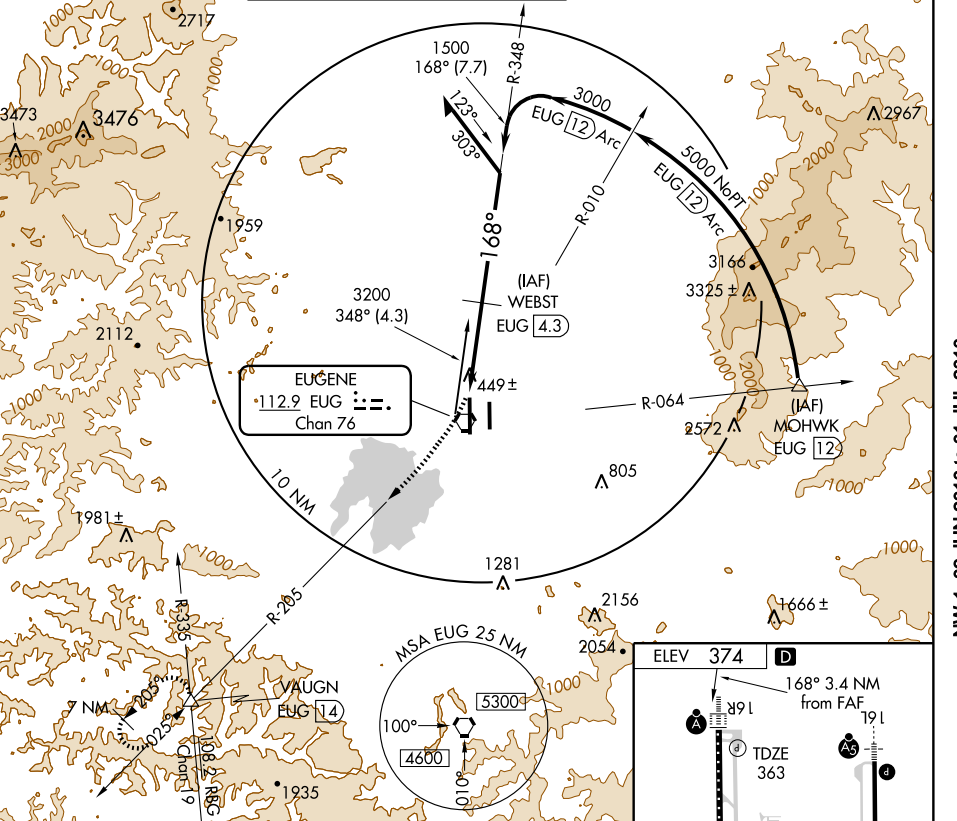
V

For inoperative MALS, increase S-16R Cat D visibility to RVR 6000.

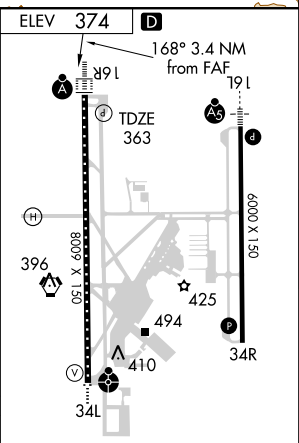
ALSF-2

MISSED APPROACH: Climbing right turn to 4000 via EUG R-205 to VAUGN/14 DME and hold.

ATIS	CASCADE APP CON	EUGENE TOWER ★	GND CON	CLNC DEL	UNICOM
125.225	119.6 348.7	118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	121.7 269.5	121.7 269.5	122.95



CATEGORY	A	B	C	D
S-16R	720/24	357 (400-½)		720/50 357 (400-1)
CIRCLING	800-1 426 (500-1)	840-1 466 (500-1)	840-1½ 466 (500-½)	940-2 566 (600-2)



TDZ/CL Rwy 16R
REIL Rwy 34R
HIRL Rwy 16L-34R and Rwy 16R-34L

EUGENE, OREGON

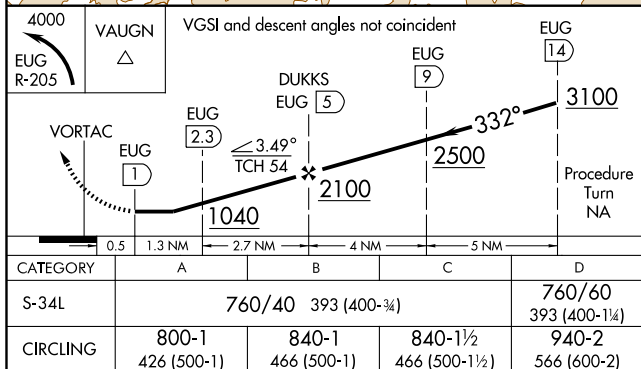
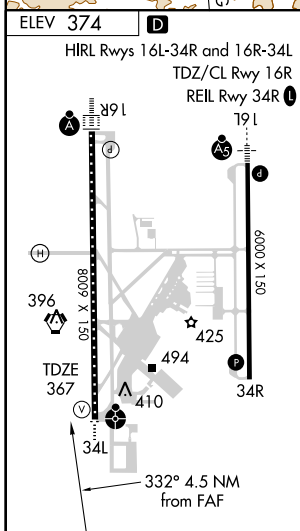
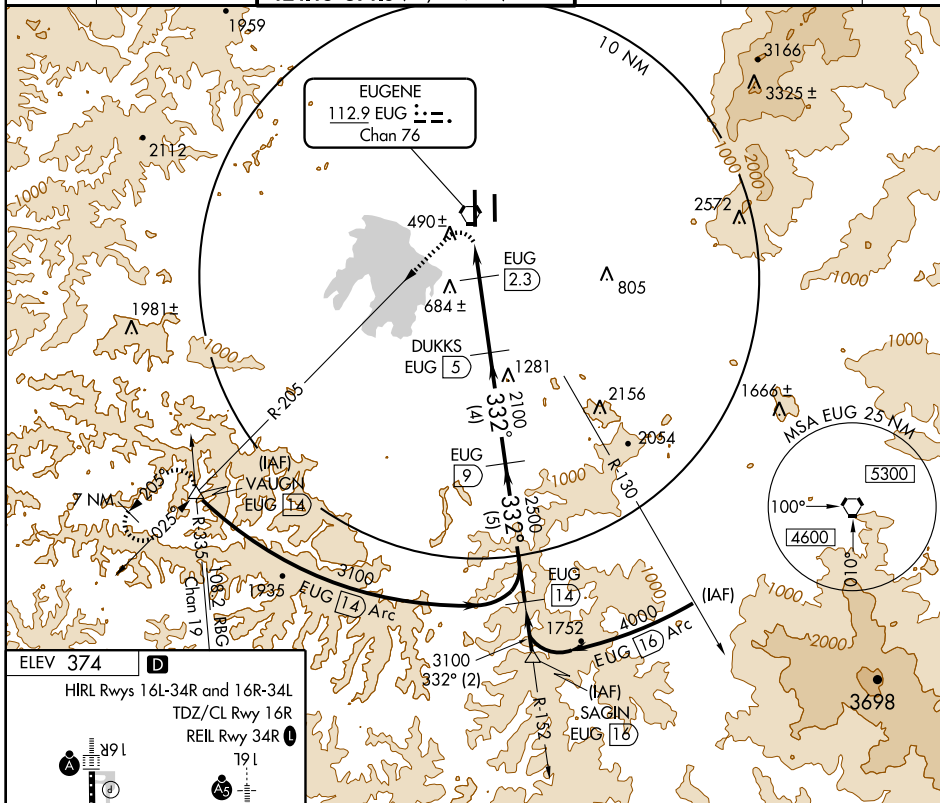
AL-140 (FAA)

VORTAC EUG 112.9 Chan 76	APP CRS 332°	Rwy Idg TDZE Apt Elev	8009 367 374
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VOR/DME or TACAN RWY 34L

EUGENE/MAHLON SWEET FIELD (EUG)

		ODALS 	MISSED APPROACH: Climbing left turn to 4000 via EUG R-205 to VAUGHN/14 DME and hold.	
ATIS 125.225	CASCADE APP CON 119.6 348.7	EUGENE TOWER ★ 118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)		UNICOM 122.95
GND CON 121.7 269.5		CLNC DEL 121.7 269.5		



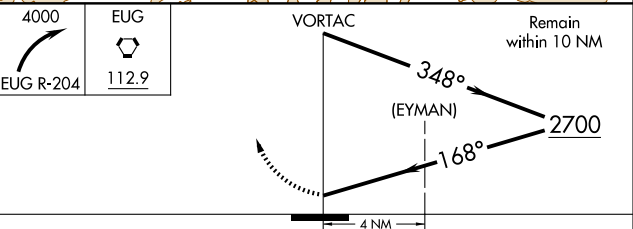
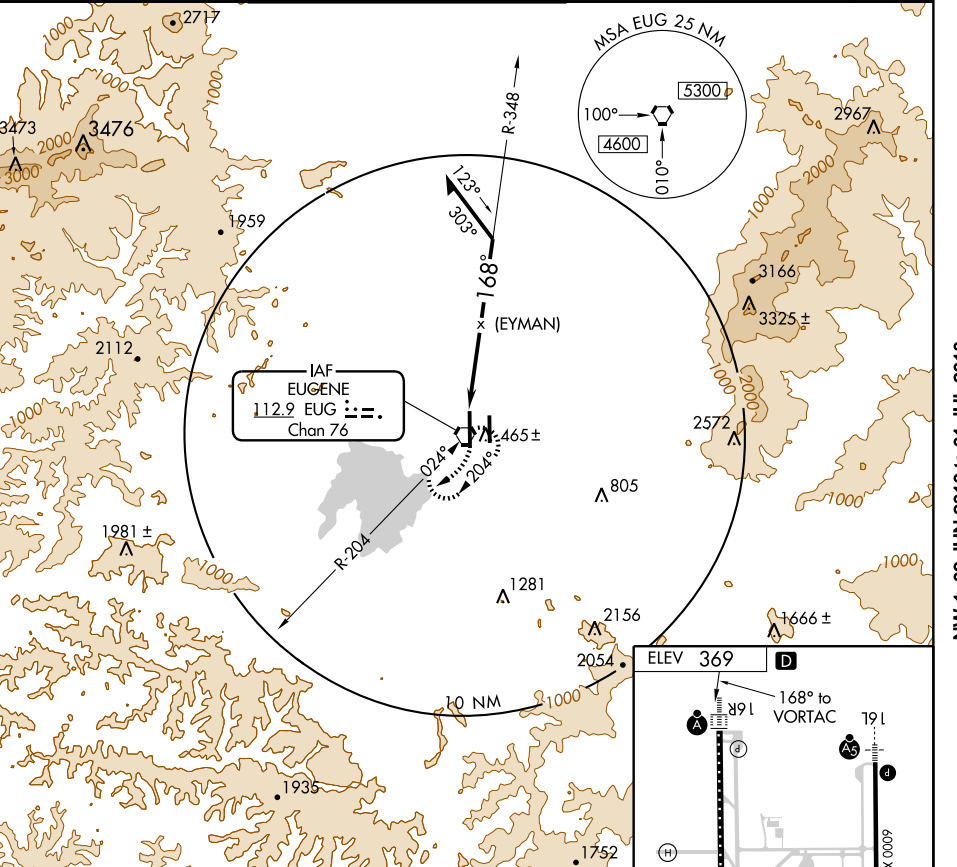
NW-1, 03 JUN 2010 to 01 JUL 2010

▼

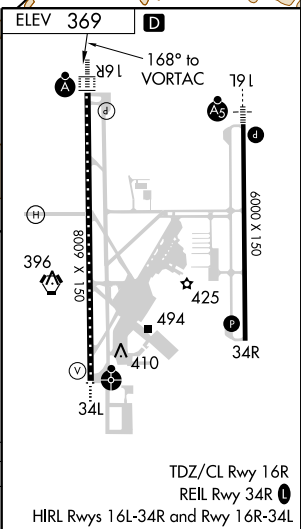
▲

MISSED APPROACH: Climbing right turn to 4000 via EUG R-204, then direct EUG VORTAC and hold.

ATIS	CASCADE APP CON	EUGENE TOWER★	GND CON	CLNC DEL	UNICOM
125.225	119.6 348.7	118.9 (CTAF) 371.9 (Rwy 16R/34L) 124.15 371.9 (Rwy 16L/34R)	121.7 269.5	121.7 269.5	122.95



CATEGORY	A	B	C	D
CIRCLING	1200-1 831 (900-1)	1200-1¼ 831 (900-1¼)	1200-2½ 831 (900-2½)	1200-2¾ 831 (900-2¾)



NW-1. 03 JUN 2010 to 01 JUL 2010

TDZ/CL Rwy 16R
REIL Rwy 34R
HIRL Rwy 16L-34R and Rwy 16R-34L

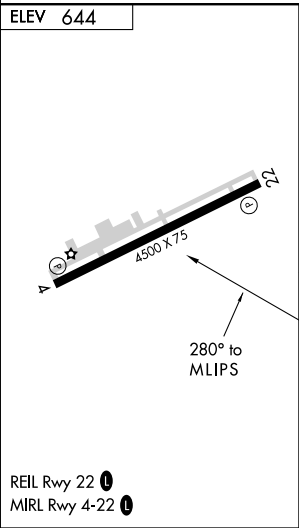
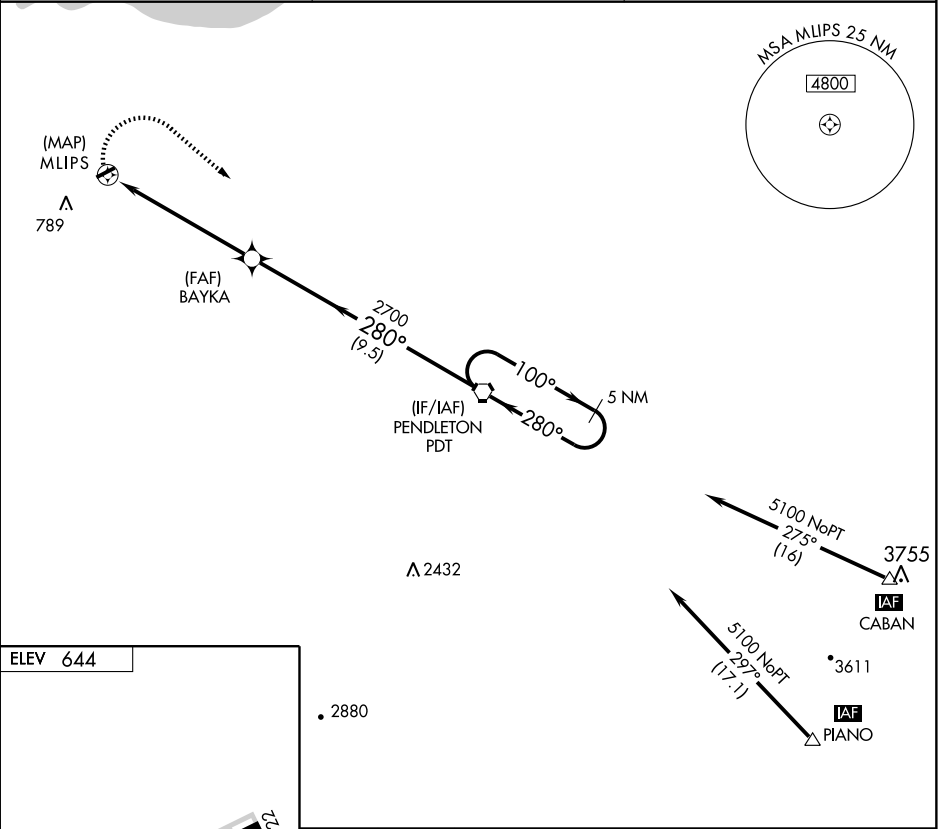
RNAV(GPS)-B
HERMISTON MUNI (HRI)



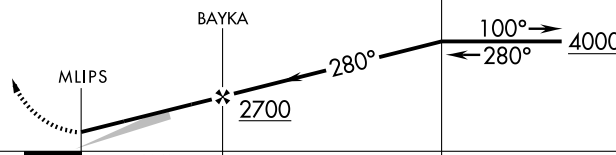
APP CRS 280°	Rwy Idg TDZE Apt Elev	N/A N/A 644
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GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
NA IAF ARM APPROACH MODE PRIOR TO IAF.

MISSED APPROACH: Climbing right turn to 4000 direct PDT
VORTAC and hold.

ASOS 135.225	CHINOOK APP CON ★ 133.15 379.15	UNICOM 122.8 (CTAF) 0
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<div>4000</div> <div></div>	<div>PDT</div> <div></div>	<div>5 NM Holding Pattern</div>			
<div></div>					
CATEGORY	A		B	C	D
CIRCLING	1180-1 536 (600-1)		1180-1½ 536 (600-1½)	1200-2 556 (600-2)	

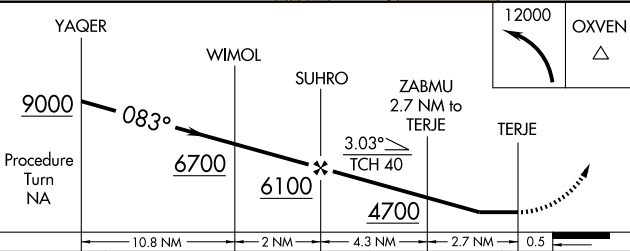
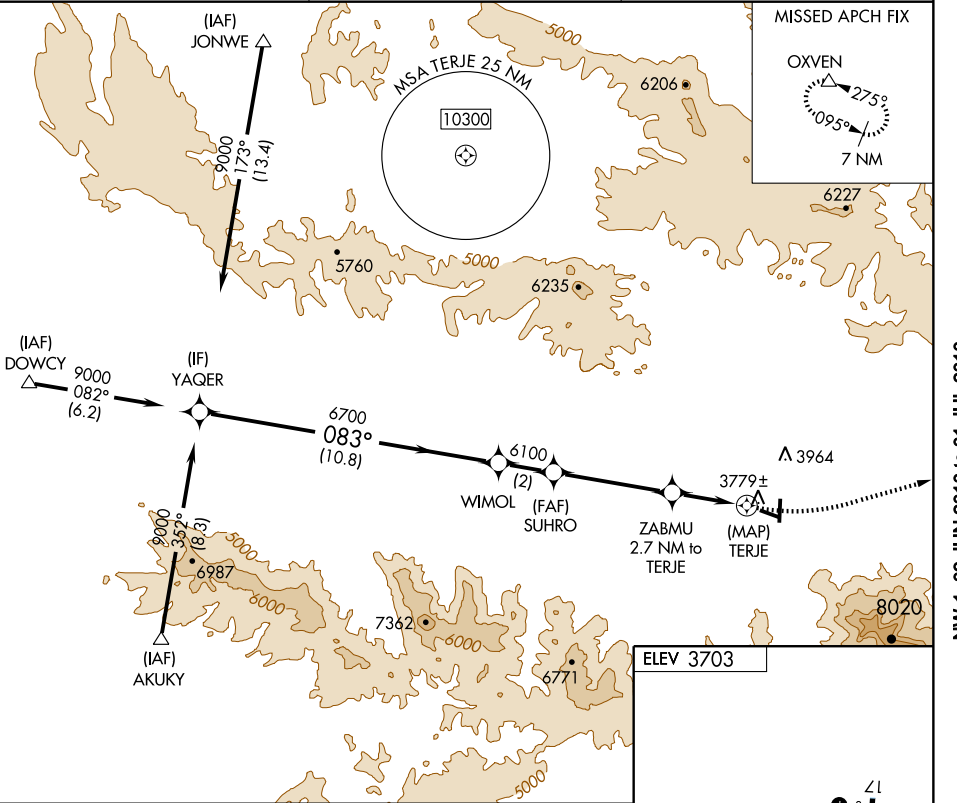
▼

▲

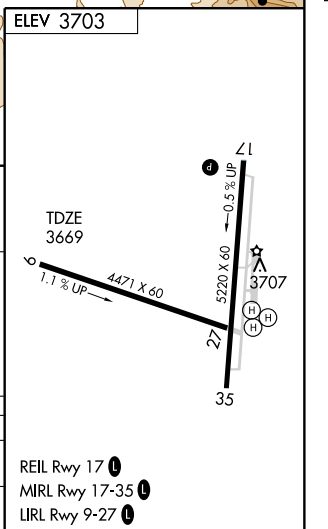
When local altimeter setting not received, procedure NA.
Circling NA south of Rwy 9-27. DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 12000 direct
OXVEN and hold, continue climb-in-hold to 12000.

AWOS-3 118.375	SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LNAV MDA	4280-1 611 (600-1)	4280-1 3/4 611 (600-1 3/4)	4280-2 1/2 611 (600-2 1/2)	NA
CIRCLING	4280-1 577 (600-1)	4520-1 1/4 817 (900-1 1/4)	4520-2 1/2 817 (900-2 1/2)	NA



NW-1. 03 JUN 2010 to 01 JUL 2010

WAAS CH 73010 W09A	APP CRS 091°	Rwy ldg TDZE Apt Elev 4471 3669 3703
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RNAV (GPS) Z RWY 9

JOHN DAY/GRANT COUNTY RGNL/OGILVIE FIELD (GCD)

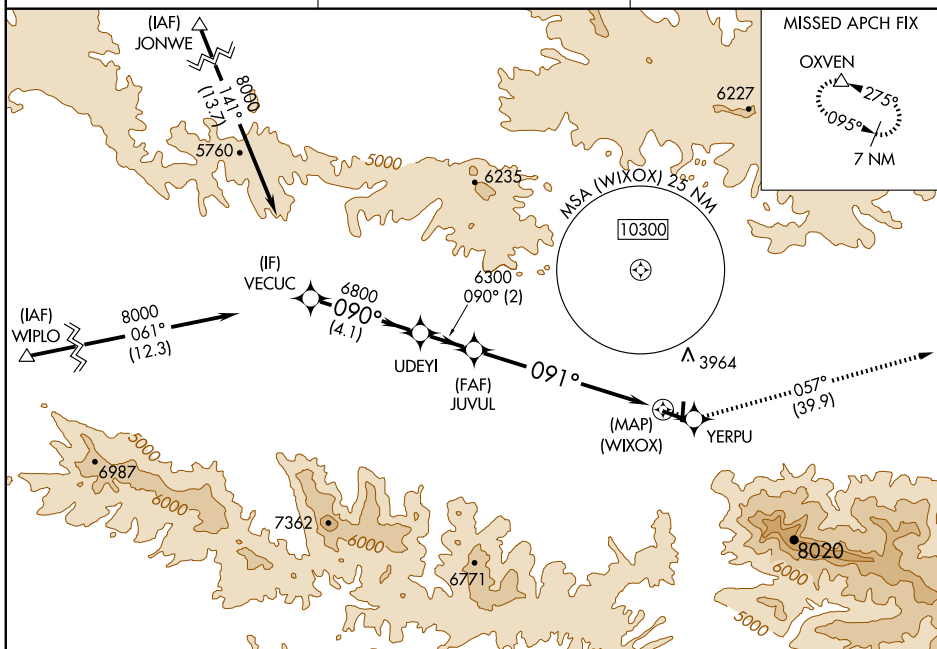
▼ When local altimeter setting not received, procedure NA.
DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 12000 direct YERPU then via 057° track to OXVEN and hold, continue climb-in-hold to 12000.

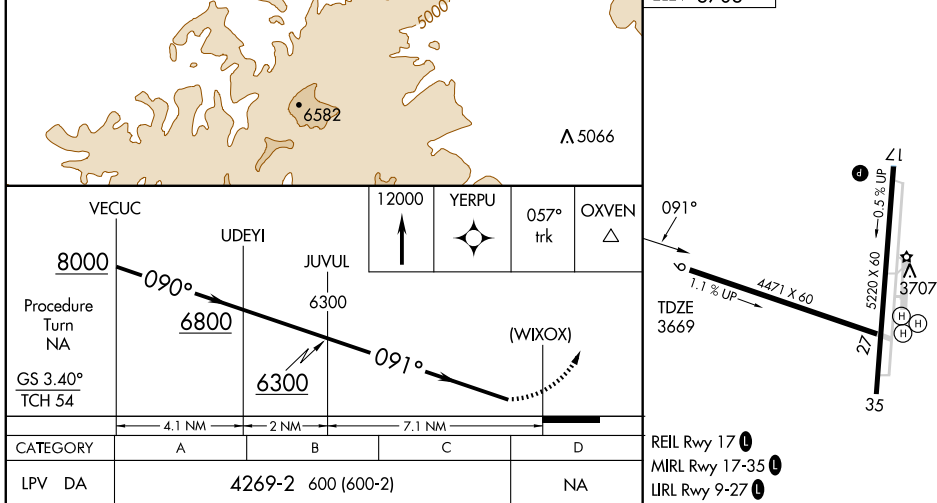
AWOS-3
118.375

SEATTLE CENTER
128.15 257.75

UNICOM
122.8 (CTAF) 0



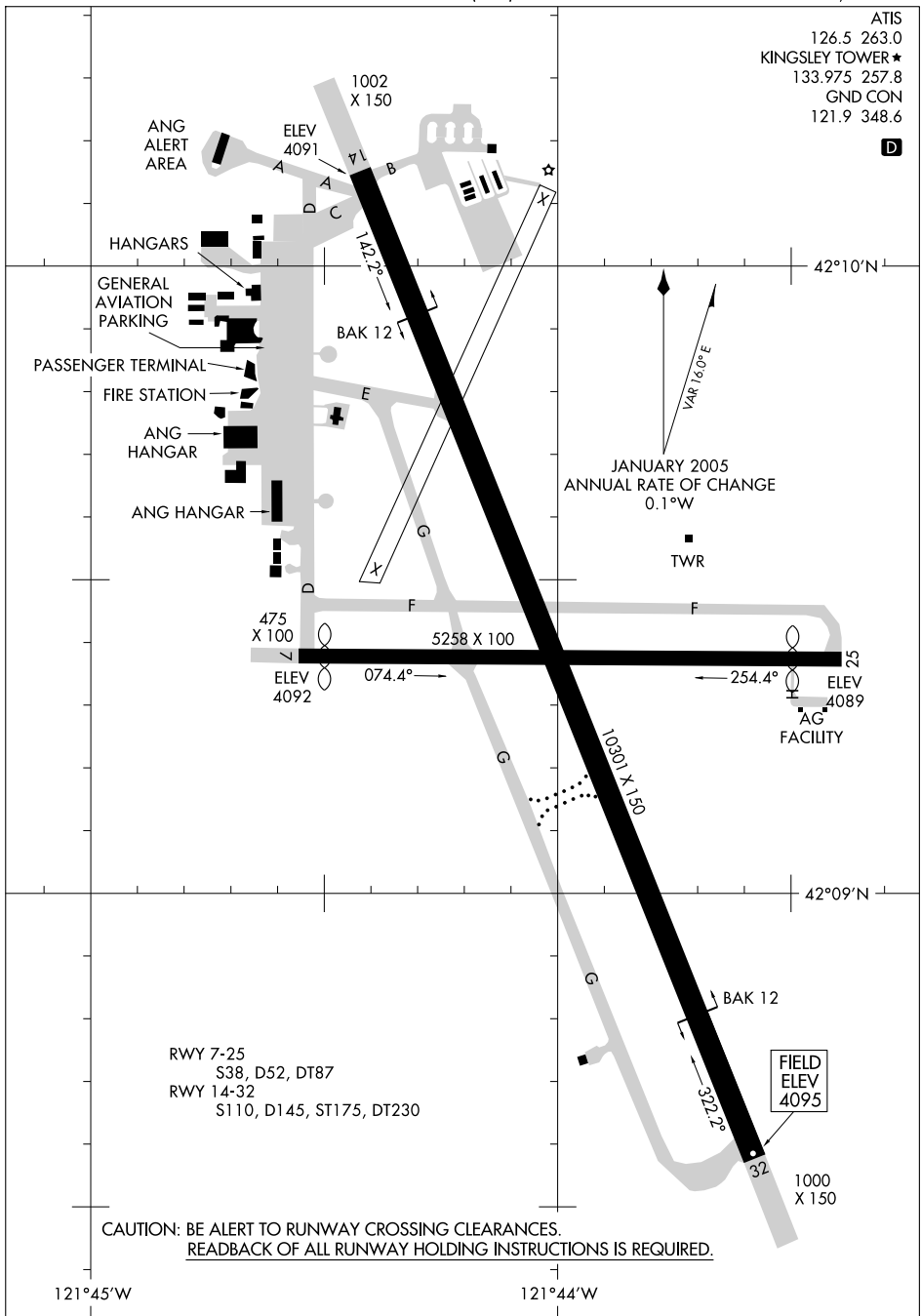
ELEV 3703



AIRPORT DIAGRAM

AL-473 (FAA)

KLAMATH FALLS, (LMT)
KLAMATH FALLS, OREGON



ATIS
126.5 263.0
KINGSLEY TOWER ★
133.975 257.8
GND CON
121.9 348.6

D

VAR 16.0°E

JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

TWR

AG
FACILITY

NW-1, 03 JUN 2010 to 01 JUL 2010

VORTAC LMT 115.9 Chan 106	APCH CRS 134°	Rwy Idg 10,301 TDZE 4088 Arpt Elev 4095
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JAL-473 [USAF]

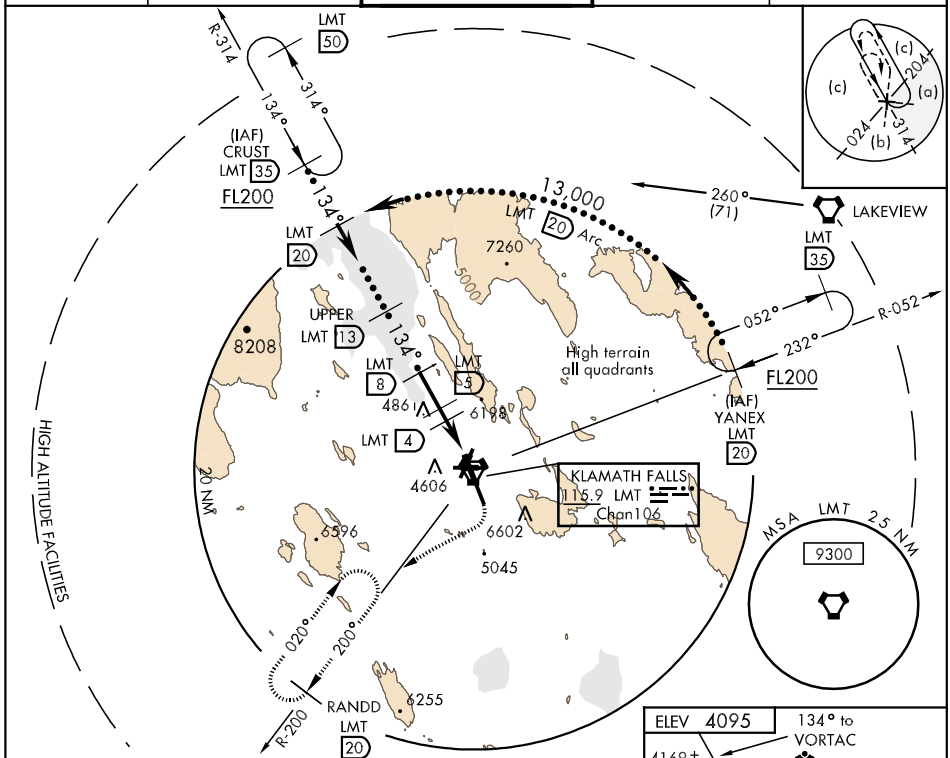
KLAMATH FALLS (KINGSLEY FIELD) (KLMT)

T * Category E circling NE of Rwy 14-32 not authorized.

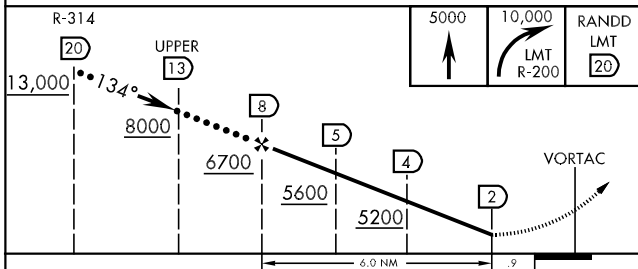


MISSED APPROACH: Climb straight ahead to 5000 then climbing right turn to 10,000 via LMT VORTAC R-200 to RANDD and hold.

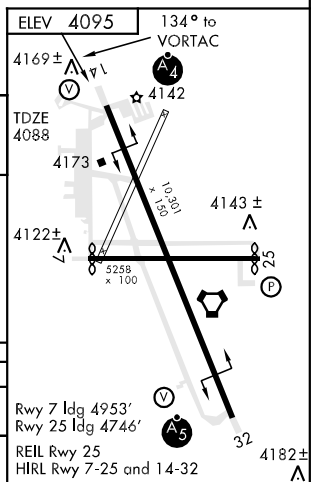
ATIS ★ 126.5 263.0	KINGSLEY APP CON 123.675 270.8	KINGSLEY TOWER ★ 133.975 CTAF 0 257.8	GND CON 121.9 348.6	ASOS
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EMERG SAFE ALT 100 NM 16,200



CATEGORY	C	D	E
S-14	4680-1½ 592 (600-1½)	4680-1¾ 592	(600-1¾)
CIRCLING *	4980-2¾ 885 (900-2¾)	5000-3 905 (1000-3)	5500-3 1405 (1500-3)



VORTAC LMT
115.9
Chan **106**

APCH CRS
328°

Rwy Idg **10,301**
TDZE
Arpt Elev **4095**

JAL-473 [USAF]

KLAMATH FALLS (KINGSLEY FIELD) (KLMT)

V * When ALS inop, increase CAT CDE by ¼ mile.
** Category E circling NE of Rwy 14-32 not authorized.



MISSED APPROACH: Climb to 5000 then climbing left turn to 10,000 to intercept LMT VORTAC R-252 to REKOE/LMT 18.1 DME and hold, continue climb in hold to 10,000.

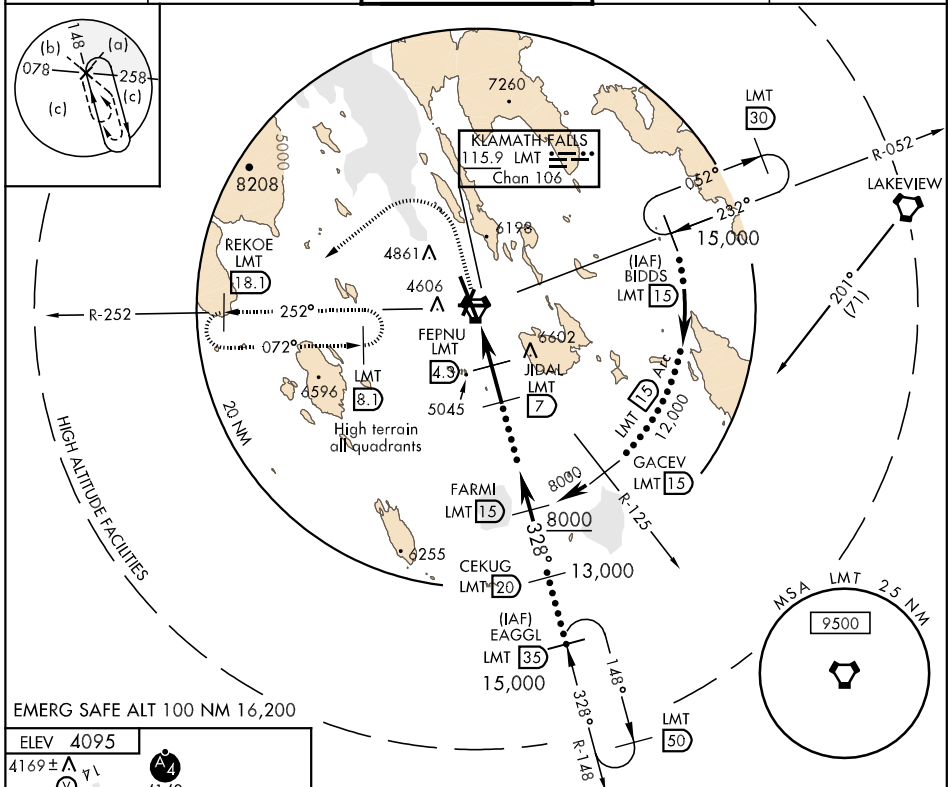
ATIS ★ **126.5 263.0**

KINGSLEY APP CON **123.675 270.8**

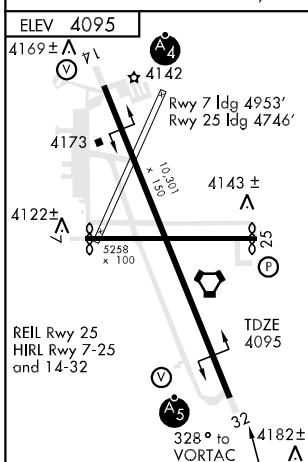
KINGSLEY TOWER ★ **133.975 CTAF 0 257.8**

GND CON **121.9 348.6**

ASOS



EMERG SAFE ALT 100 NM 16,200

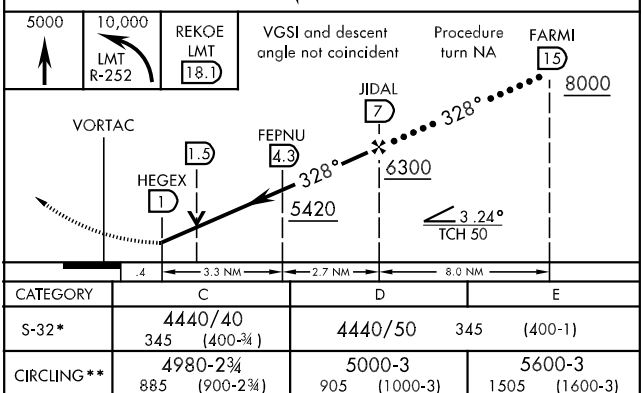


KLAMATH FALLS, OREGON

Amdt 3 10042

42° 09'N-121° 44'W

KLAMATH FALLS (KINGSLEY FIELD) (KLMT)



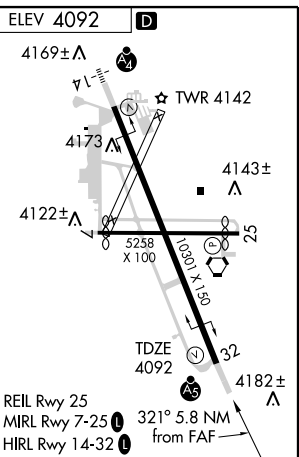
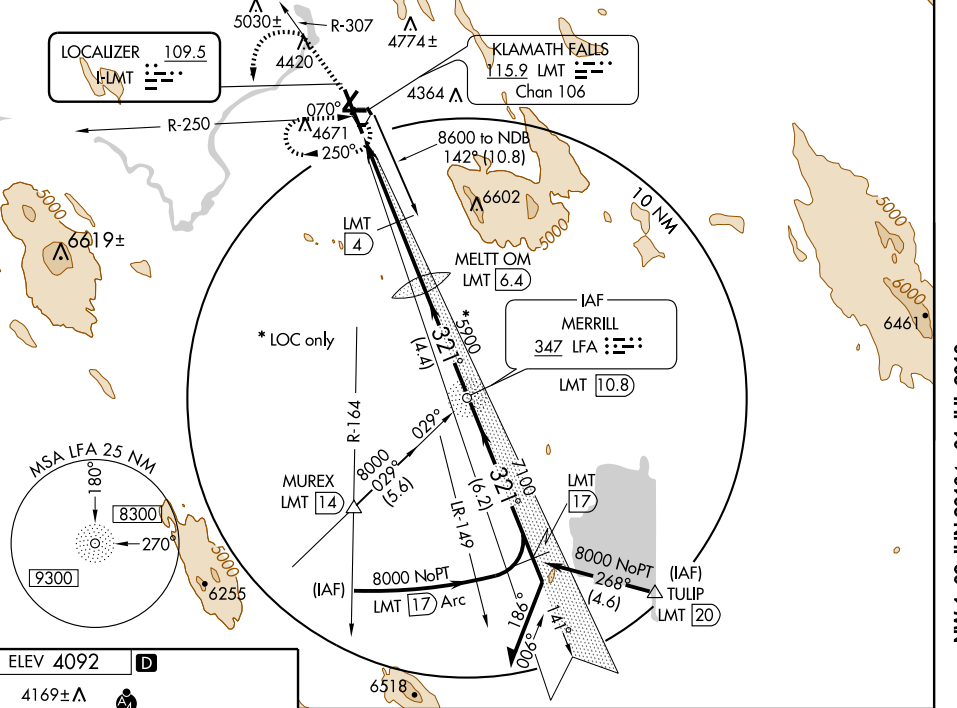
LOC I-LMT	APP CRS	Rwy Idg	10301
109.5	321°	TDZE	4092
		Apt Elev	4092

ASR/PAR

MALS

MISSED APPROACH: Climb to 5300 via LMT R-307 then climbing left turn westbound to 8500 via LMT R-250, then left turn direct LMT VORTAC and hold.

ATIS	KINGSLEY APP CON *	KINGSLEY TOWER *	GND CON	UNICOM
126.5 263.0	123.675 270.8	133.975 (CTAF) 257.8	121.9 348.6	122.95



<div><div>ELEV 4092</div><div><div>5300</div><div>8500</div><div>LMT</div></div><div><div>LMT R-307</div><div>LMT R-250</div></div><div><div>MELTT OM</div><div>LMT 6.4</div><div>6038</div></div><div><div>LMT 10.8</div><div>7600</div><div>7100</div><div>4960*</div><div>5900*</div></div><div><div>3.4 NM</div><div>2.4 NM</div><div>4.4 NM</div></div><div><div>141°</div><div>321°</div><div>7100</div><div>GS 3.00°</div><div>TCH 55</div></div></div>				
CATEGORY	A	B	C	D
S-ILS 32	4292/24 200 (200-½)			
S-LOC 32	4960/24 868 (900-½)	4960/40 868 (900-¾)	4960-2 868 (900-2)	4960-2¼ 868 (900-2¼)
CIRCLING	4960-1 868 (900-1)	4980-1¼ 888 (900-1¼)	4980-2¾ 888 (900-2¾)	5000-3 908 (1000-3)
DME MINIMUMS				
S-LOC 32	4500/24	408 (500-½)	4500/40	408 (500-¾)
CIRCLING	4840-1 748 (800-1)	4980-1¼ 888 (900-1¼)	4980-2¾ 888 (900-2¾)	5000-3 908 (1000-3)

NW-1, 03 JUN 2010 to 01 JUL 2010

KINGSLEY THREE DEPARTURE

SL-473 (FAA)

KLAMATH FALLS (LMT)
KLAMATH FALLS, OREGON

ATIS

126.5 263.0

GND CON

121.9 348.6

KINGSLEY TOWER ★

133.975 257.8

KINGSLEY DEP CON ★

123.675 270.8

EUGENE

112.9 EUG

Chan 76

N44°07.25'-W123°13.37'

L-1, H-1

DESCHUTES

117.6 DSD

Chan 123

N44°15.17'-W121°18.21'

L-13, H-1

ROSEBURG

108.2 RBG

Chan 19

N43°10.95'-W123°21.14'

L-1, H-1

ROGUE VALLEY

113.6 OED

Chan 83

N42°28.78'-W122°54.78'

L-2, H-3

FORT JONES

109.6 FJS

Chan 33

N41°26.98'-W122°48.39'

L-2

10000 or
assigned altitude

LAKEVIEW

112.0 LKV

Chan 57

N42°29.57'-W120°30.43'

L-11, H-3

KLAMATH FALLS

115.9 LMT

Chan 106

N42°09.19'-W121°43.65'

L-2, H-3

10000 or
assigned altitude

RED BLUFF

115.7 RBL

Chan 104

N40°05.93'-W122°14.18'

L-2, H-3

MUSTANG

117.9 FMG

Chan 126

N39°31.88'-W119°39.37'

L-9, H-3

NOTE: Chart not to scale.

NOTE: This SID requires a minimum climb of 325' per NM to 8500' or 4500' ceiling and 3 mile visibility to clear obstruction. (813 FPM at 150K, 1083 FPM 200K, 1354 FPM at 250K).

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 14 and 32: Climb via runway heading until leaving 4700'. Then via radar vector headings to assigned route.

LOST COMMUNICATIONS

If not in contact with Seattle Center after reaching 10000' or assigned altitude, if lower; continue climb to assigned altitude and:

Take-off runway 14: Climbing right turn direct LMT VORTAC, thence via (assigned route).

Take-off runway 32: Climbing left turn direct LMT VORTAC, thence via (assigned route).

RNAV (GPS) RWY 14

KLAMATH FALLS (LMT)

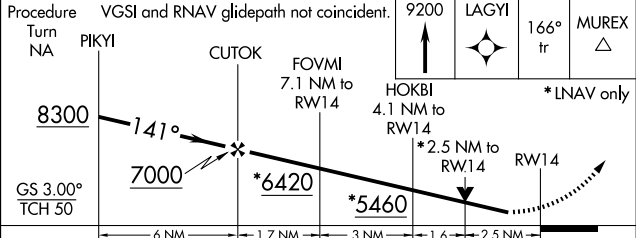
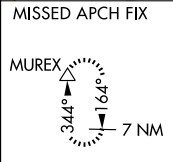
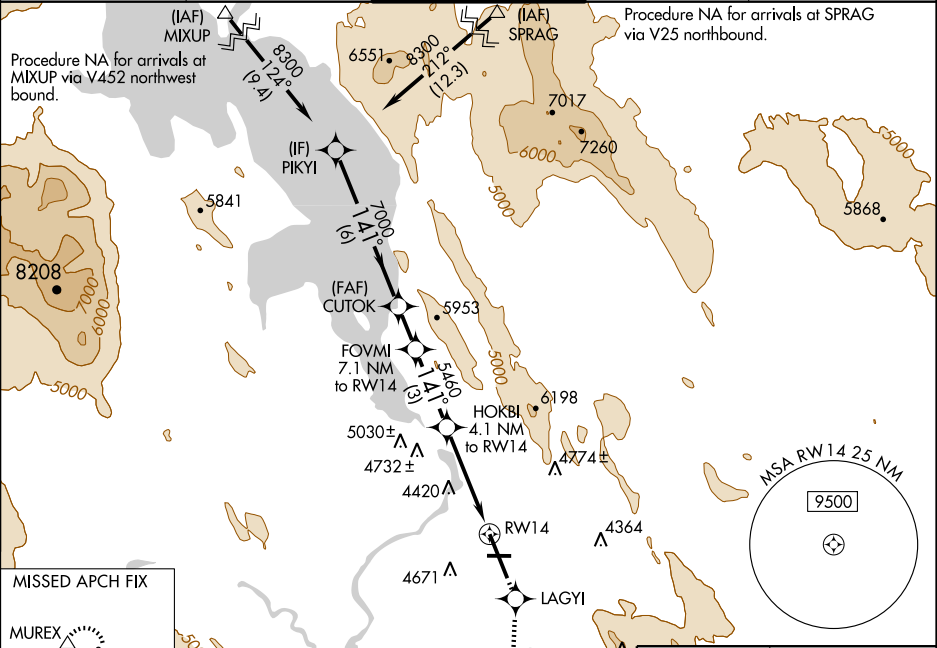
WAAS CH 58001 W14A	APP CRS 141°	Rwy Idg 10301 TDZE 4091 Apt Elev 4095
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⚠ DME/DME RNP-0.3 NA.
⚠ Inoperative table does not apply to LPV all Cats, and LNAV Cats B, C and D.
ASR/PAR Visibility reduction by helicopters NA.

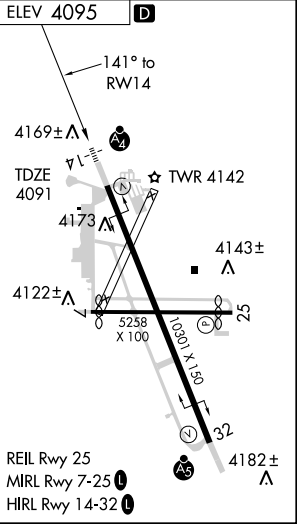
MALSF

MISSED APPROACH: Climb to 9200 direct LAGYI and via 166° track to MUREX and hold, continue climb-in-hold to 9200.

ATIS 126.5 263.0	KINGSLEY APP CON * 123.675 270.8	KINGSLEY TOWER * 133.975 (CTAF) 0 257.8	GND CON 121.9 348.6	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	4635-2 544 (600-2)			
LNAV/VNAV DA	NA			
LNAV MDA	4920-3/4 829 (900-3/4)	4920-1 1/4 829 (900-1 1/4)	4920-2 1/2 829 (900-2 1/2)	4920-2 3/4 829 (900-2 3/4)
CIRCLING	4920-2 825 (900-2)	4980-2 885 (900-2)	4980-2 3/4 885 (900-2 3/4)	5060-3 965 (1000-3)



VORTAC LMT	APP CRS	Rwy Idg	10301
115.9	134°	TDZE	4091
Chan 106		Apt Elev	4095

VOR/DME or TACAN RWY 14

KLAMATH FALLS (LMT)

▼

▲

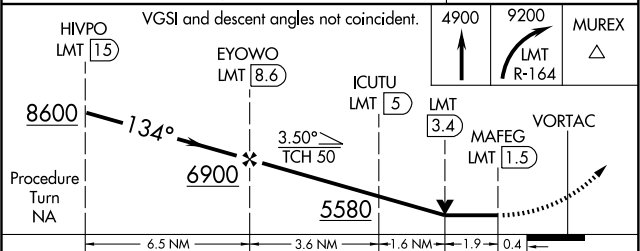
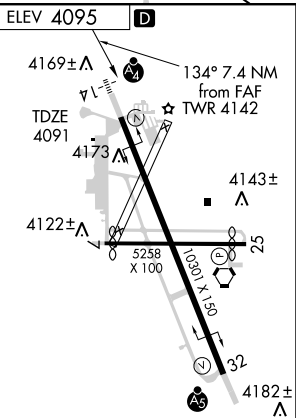
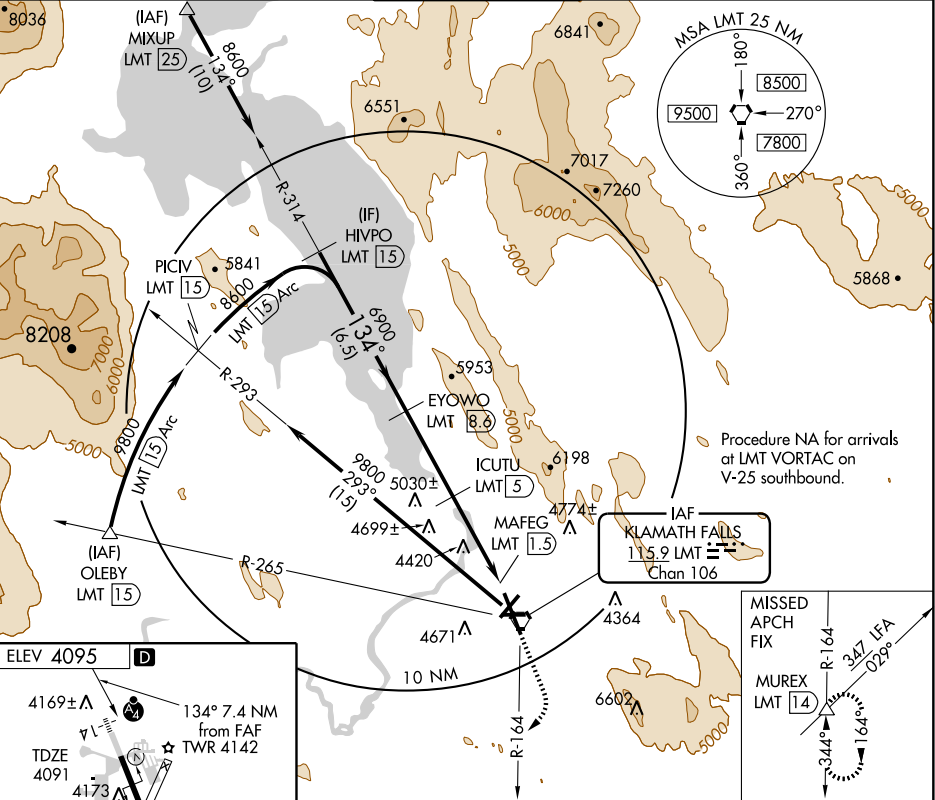
ASR/PAR

Cat E circling NA northeast of Rwy 14-32.
For inoperative MALSF increase S-14 Cat E visibility to 2¾,
inoperative table does not apply to Cats B, C, and D.
Visibility reduction by helicopters NA.

MALSF

MISSED APPROACH: Climb to 4900 then
climbing right turn to 9200 via LMT R-164
to MUREX/14 DME and hold, continue
climb-in-hold to 9200.

ATIS	KINGSLEY APP CON★	KINGSLEY TOWER★	GND CON	UNICOM
126.5 263.0	123.675 270.8	133.975 (CTAF) 0 257.8	121.9 348.6	122.95



REIL Rwy 25
MIRL Rwy 7-25
HIRL Rwy 14-32

CATEGORY	A	B	C	D	E
S-14	4860-3¼ 769 (800-¾)	4860-1¼ 769 (800-1¼)	4860-2¼ 769 (800-2¼)	4860-2½ 769 (800-2½)	769 (800-2½)
CIRCLING	4860-1 765 (800-1)	4980-1¼ 885 (900-1¼)	4980-2¾ 885 (900-2¾)	5060-3 965 (1000-3)	5600-3 1505 (1600-3)

NW-1, 03 JUN 2010 to 01 JUL 2010

VORTAC LMT 115.9 Chan 106	APP CRS 328°	Rwy Idg 10301 TDZE 4092 Apt Elev 4092
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VOR/DME or TACAN RWY 32

KLAMATH FALLS (LMT)

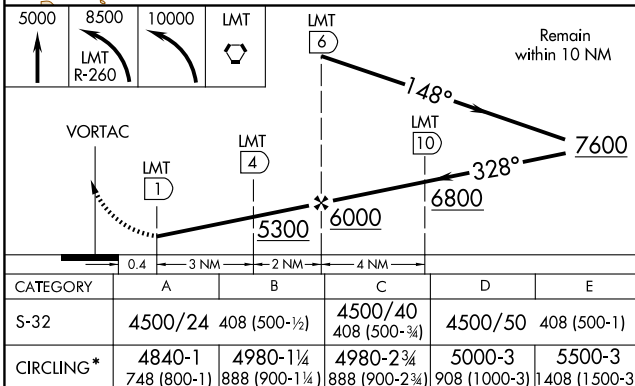
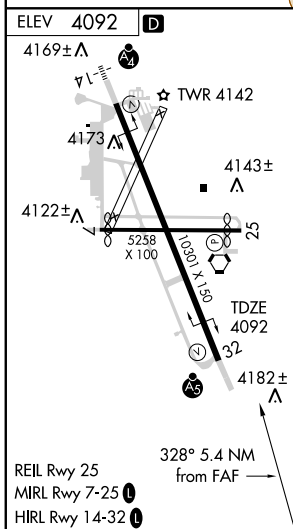
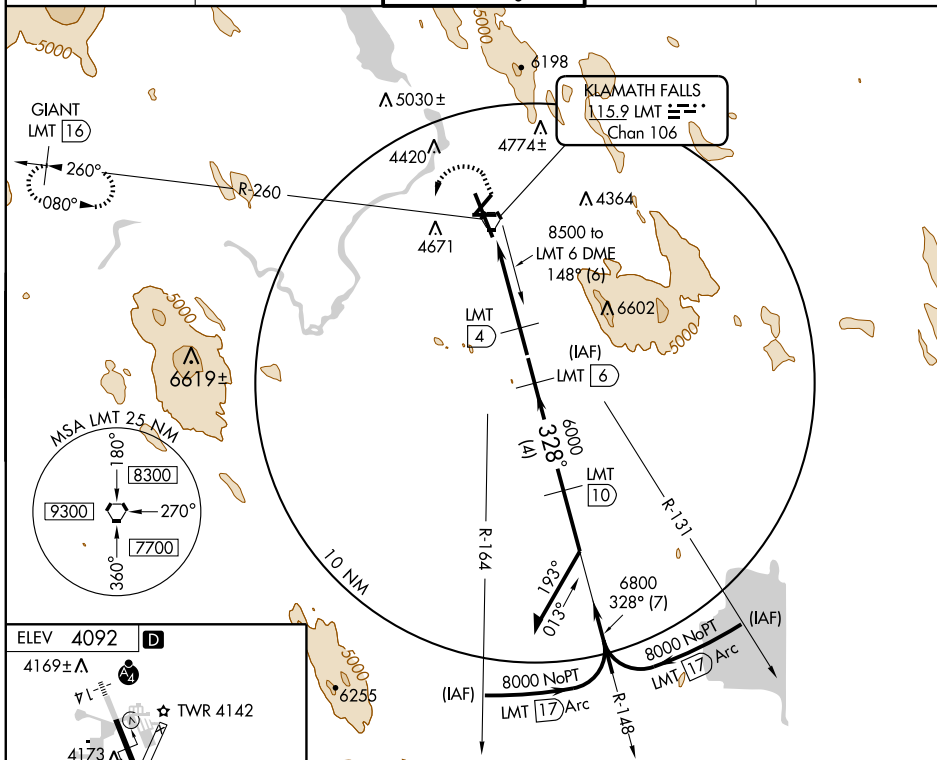
T Cat. E procedure turn NA.
A * Cat. E circling NA northeast of Rwy 14-32.
 ASR/PAR S-32 Cat. D visibility increased to RVR 6000 for
 inoperative ALSF-1.

MALSR



MISSED APPROACH: Climb to 5000 then climbing left turn to 8500 via LMT R-260 then climbing left turn to 10000 direct LMT VORTAC. (TACAN aircraft continue climb on R-260 to 10000 to GIANT/16 DME and hold East. left turns. 260 inbound.)

ATIS 126.5 263.0	KINGSLEY APP CON ★ 123.675 270.8	KINGSLEY TOWER ★ 133.975 (CTAF) 0 257.8	GND CON 121.9 348.6	UNICOM 122.95
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VORTAC LMT 115.9 Chan 106	APP CRS 340°	Rwy Idg N/A TDZE N/A Apt Elev 4092
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VOR or GPS-B
KLAMATH FALLS (LMT)

ASR/PAR

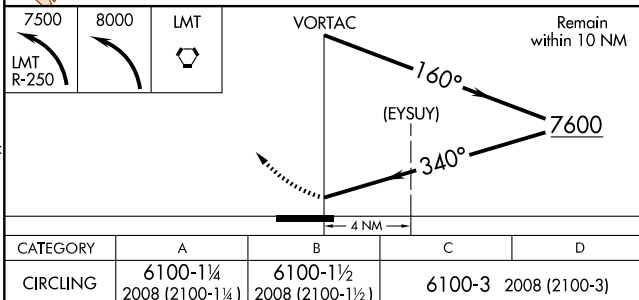
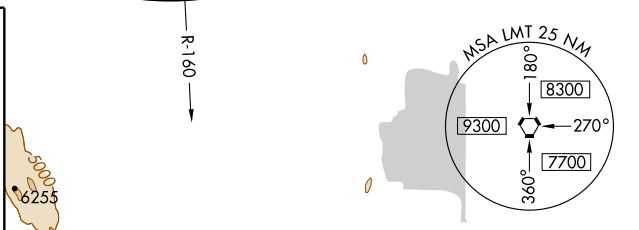
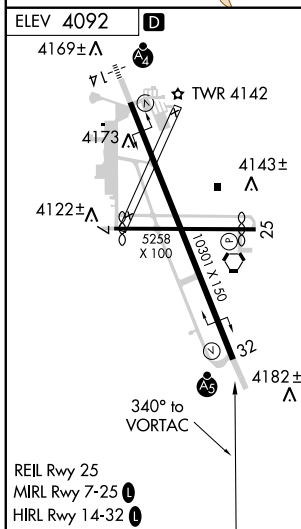
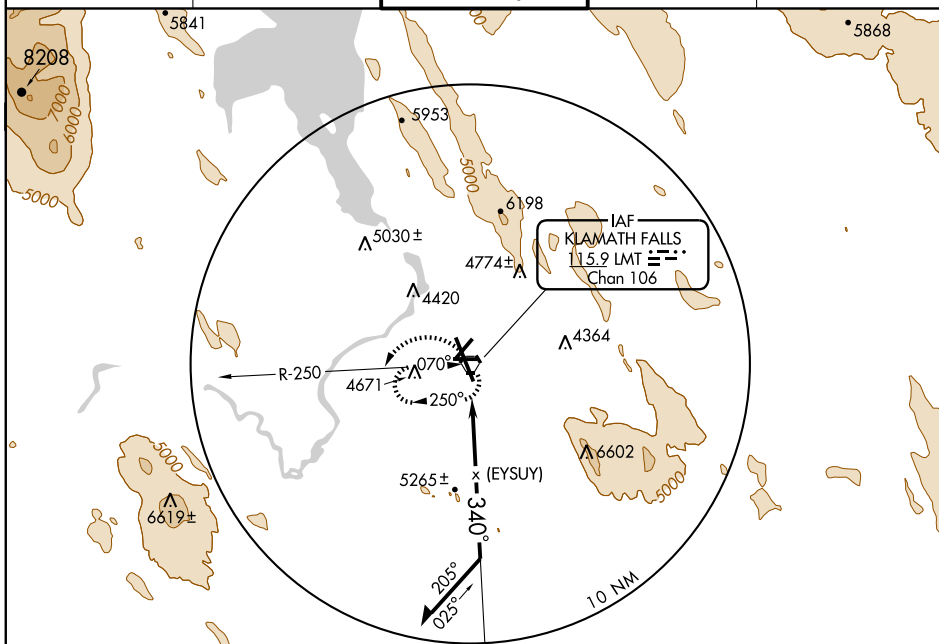
MISSED APPROACH: Climbing left turn to 7500 via LMT R-25 then climbing left turn to 8000 direct LMT VORTAC and hold.

ATIS
126.5 263.0

KINGSLEY APP CON★
123.675 270.8

KINGSLEY TOWER★
133.975 (CTAF) 257.8

GND CON
121.9 348.6

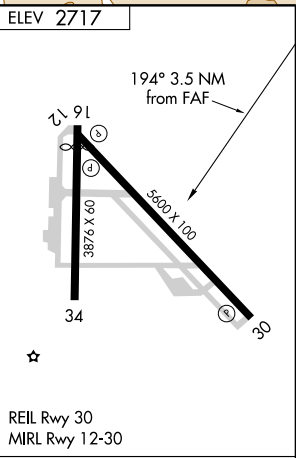
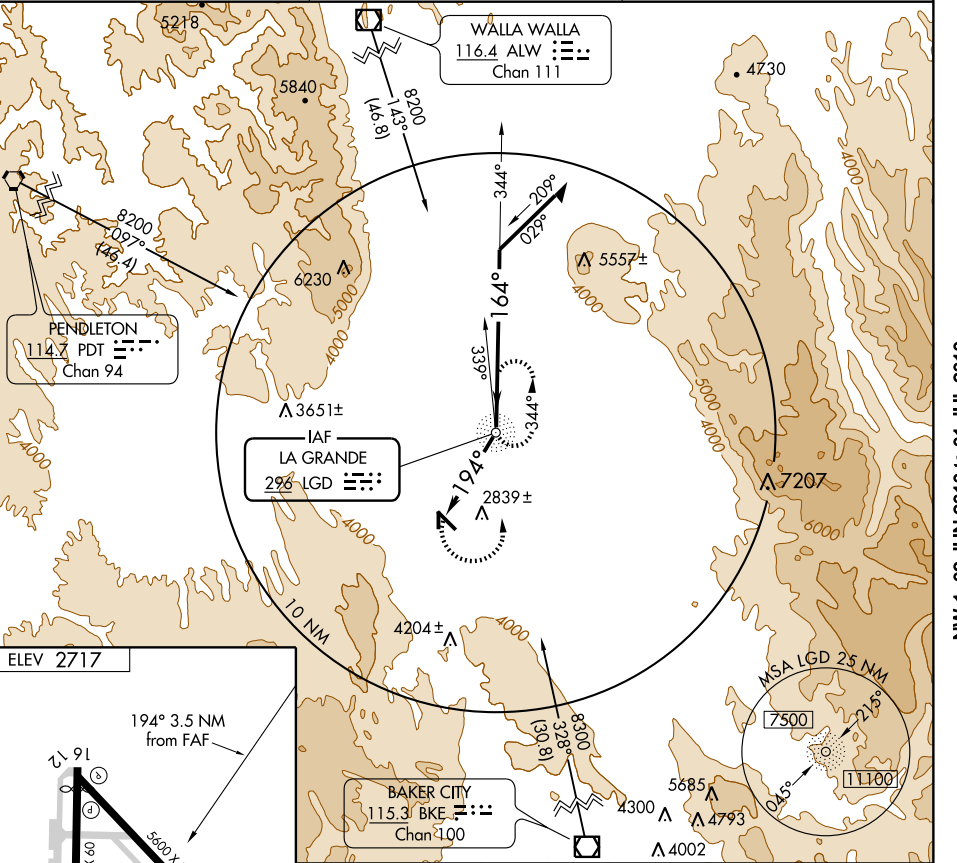
UNICOM
122.95

NDB LGD	APP CRS	Rwy Idg TDZE	N/A
296	194°	Apt Elev	2717

NA

MISSED APPROACH: Climbing left turn to 7000 direct LGD NDB and 339° bearing from LGD NDB, then right turn direct LGD NDB and hold.

AWOS-3 135.075	SEATTLE CENTER 132.6 269.35	UNICOM 122.8 (CTAF)
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FAF to MAP 3.5 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	4360-1¼ 1643 (1700-1¼)	4360-1½ 1643 (1700-1½)	4360-3 1643 (1700-3)	NA
Min:Sec	3:30	2:20	1:45	1:24	1:10					

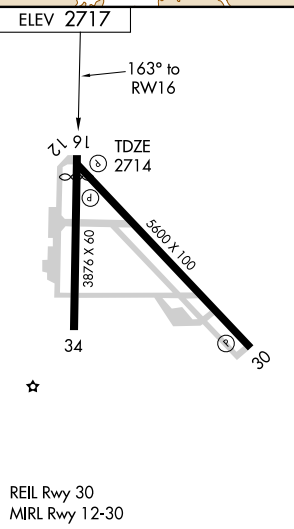
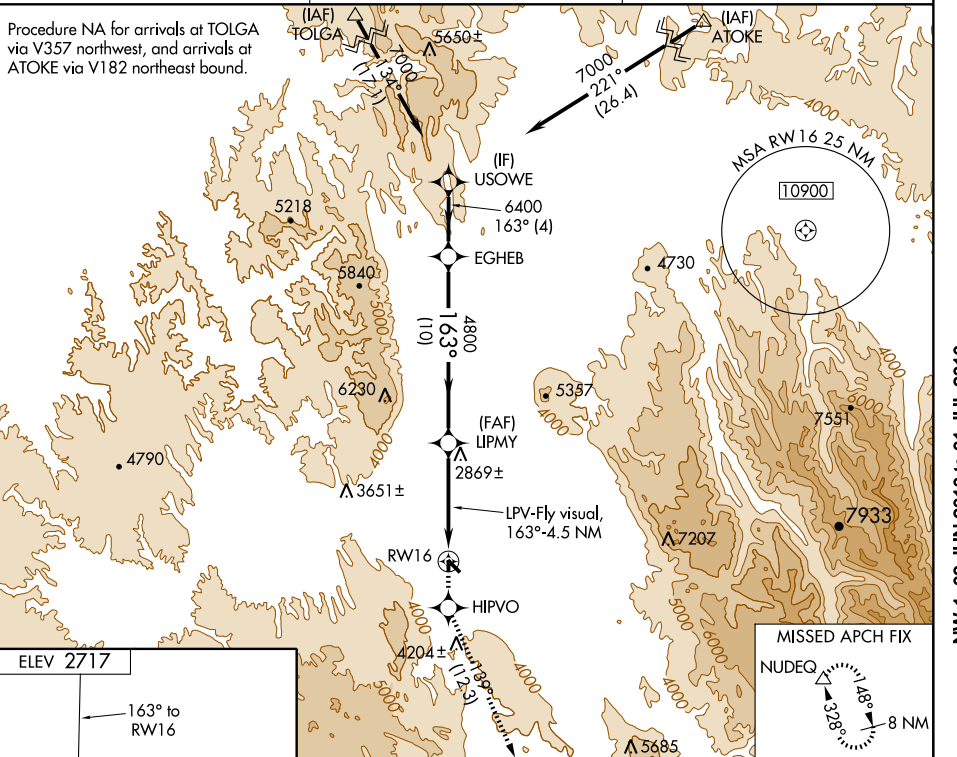
NW-1. 03 JUN 2010 to 01 JUL 2010

WAAS CH 66000 W16A	APP CRS 163°	Rwy Idg 3390 TDZE 2714 Apt Elev 2717
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DME/DME RNP-0.3 NA.
If local altimeter setting not received procedure NA.

MISSED APPROACH: Climb to 9000 direct HIPVO and via 139° track to NUDEQ and hold, continue climb-in-hold to 9000.

AWOS-3 135.075	SEATTLE CENTER 132.6 269.35	UNICOM 122.8 (CTAF)
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9000 ↑ HIPVO		139° tr NUDEQ △		* LNAV only		EGHEB		USOWE Procedure Turn NA	
LPV, Fly visual 163° 4.5 NM		RW16		* 5.3 NM to RW16		LIPMY		7000	
		5.3 NM		1 NM		10 NM		4 NM	
163°				4800		6400		GS 3.00° TCH 35	
CATEGORY		A		B		C		D	
LPV DA		4173-2 1459 (1500-2)				4173-3 1459 (1500-3)			
LNAV/ VNAV DA		NA							
LNAV MDA		4440-1¼ 1726 (1800-1¼)		4440-1½ 1726 (1800-1½)		4440-3 1726 (1800-3)			
CIRCLING		4440-6 1723 (1800-6)							

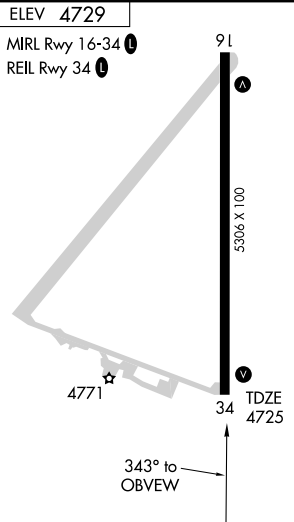
NW-1. 03 JUN 2010 to 01 JUL 2010

▼

▲ NA

MISSED APPROACH: Climbing left turn to 8000, direct GICYE WP and hold.

AWOS-3 135.525	SEATTLE CENTER 127.6 346.35	UNICOM 122.8 (CTAF) 0
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One Minute Holding Pattern

8000

175°

355°

343°

6500

3.25°

OBVEW

8000

GICYE

MUFLA

OBVEW

5 NM

4.1 NM

0.9

CATEGORY	A	B	C	D
S-34	5080-1 355 (400-1)			5080-1½ 355 (400-1½)
CIRCLING	5160-1 431 (500-1)	5180-1 451 (500-1)	5180-1½ 451 (500-1½)	5280-2 551 (600-2)

NW-1, 03 JUN 2010 to 01 JUL 2010

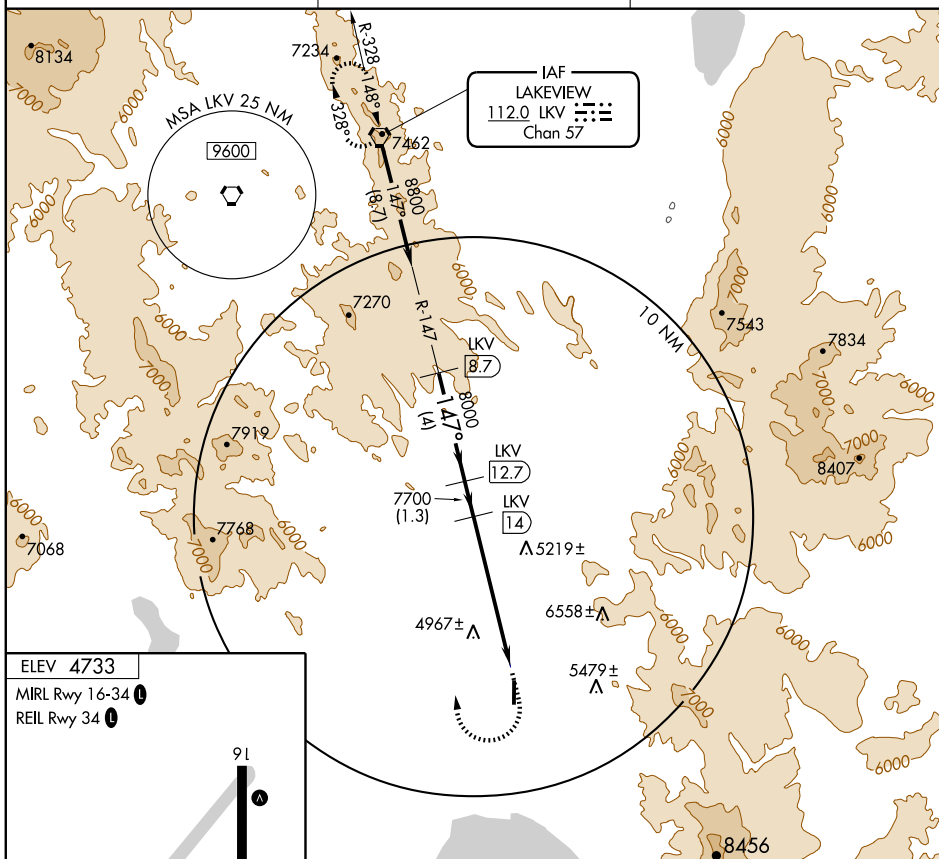
VORTAC LKV 112.0 Chgn 57	APP CRS 147°	Rwy Idg N/A TDZE N/A Apt Elev 4733
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VOR/DME-A
LAKEVIEW/LAKE COUNTY (LKV)

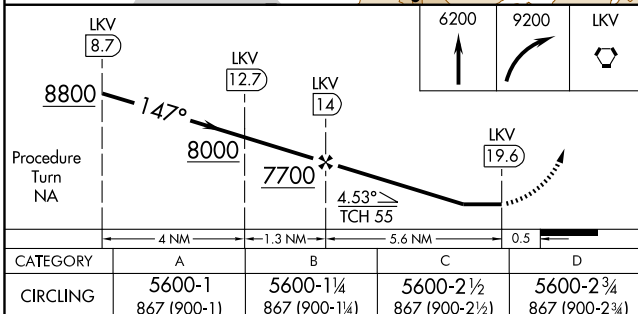
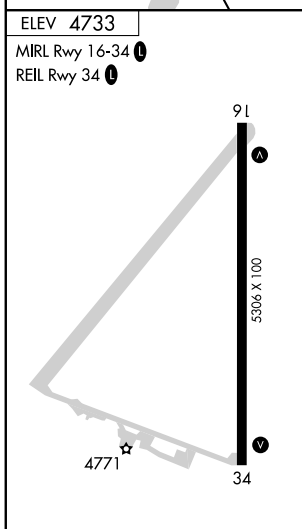
MISSED APPROACH: Climb to 6200 then climbing right turn to 9200 direct LKV VORTAC and hold.

AWOS-3
135.525

SEATTLE CENTER
127.6 346.35

UNICOM
122.8 (CTAF) **L**

NW-1. 03 JUN 2010 to 01 JUL 2010



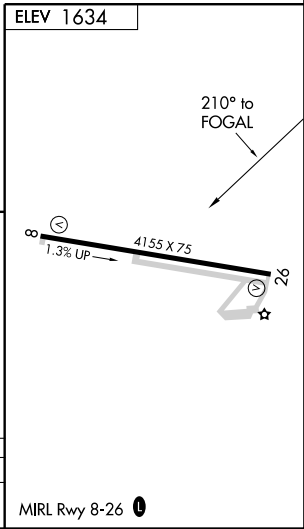
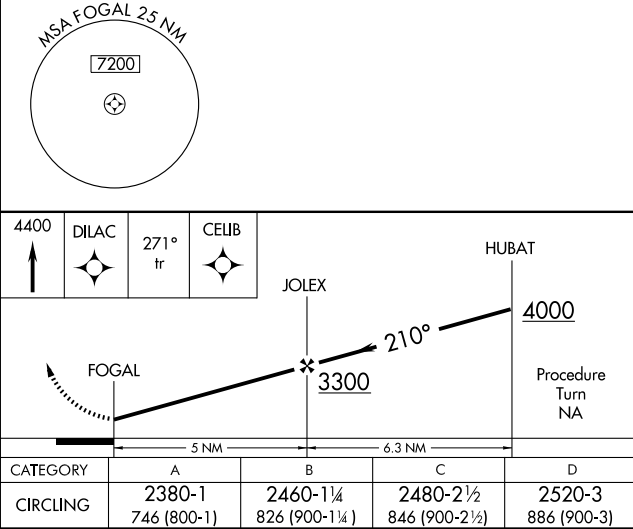
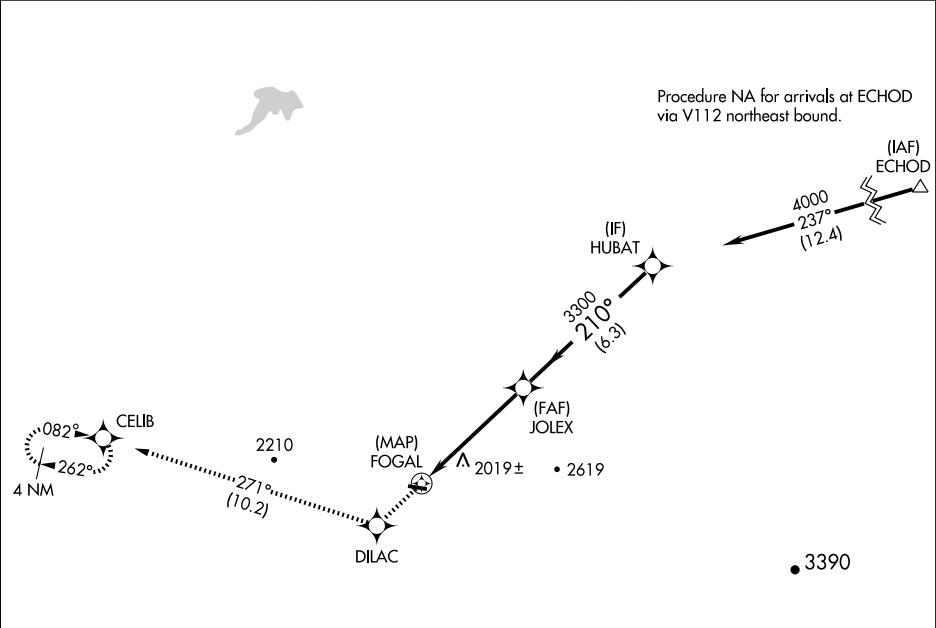
RNAV (GPS)-A
LEXINGTON (9S9)

APP CRS 210°	Rwy Idg TDZE Apt Elev	N/A N/A 1634
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▼ If local altimeter setting not received, use Hermiston
▲ NA altimeter setting and increase all MDAs 220 feet.
Procedure NA at night.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climb to 4400 direct DILAC WP and via 271° track to CELIB WP and hold.

AWOS-3 134.475	SEATTLE CENTER 132.6 269.35	CTAF 122.9 0
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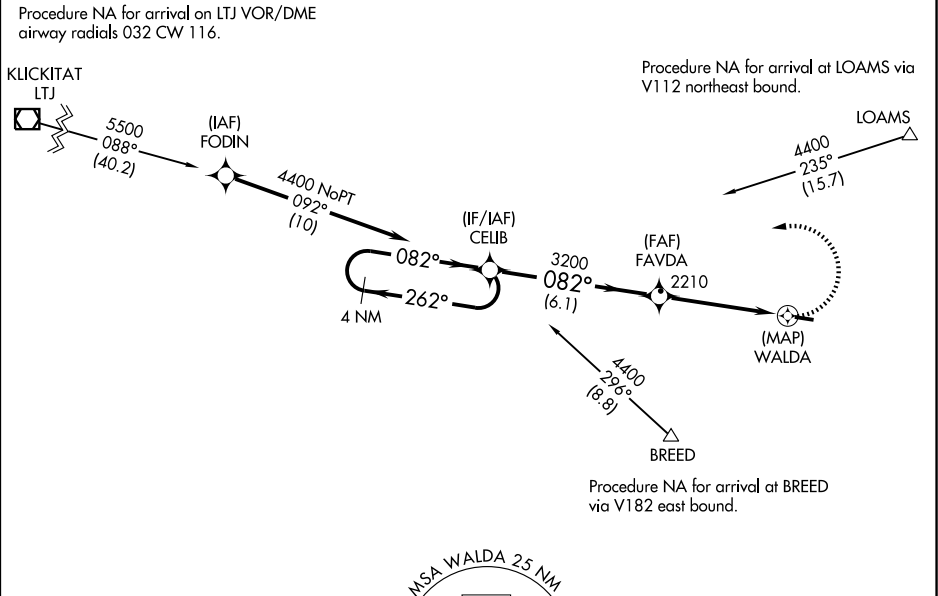
APP CRS	Rwy Idg	4155
082°	TDZE	1613
	Apt Elev	1634

RNAV (GPS) RWY 8
LEXINGTON (9S9)

NA If local altimeter setting not received, use Hermiston altimeter setting and increase all MDAs 220 feet.
Procedure NA at night.
GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing left turn to 4400 direct CELIB WP and hold.

AWOS-3 134.475	SEATTLE CENTER 132.6 269.35	CTAF 122.9
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4 NM Holding Pattern

CELIB

FAVDA

WALDA

4400

3200

262°

082°

082°

3.04° TCH 44

6.1 NM

4.6 NM

0.3

CATEGORY	A	B	C	D
LNAV MDA	2120-1	507 (500-1)	2120-1½	507 (500-1½)
CIRCLING	2380-1 746 (800-1)	2460-1¼ 826 (900-1¼)	2480-2½ 846 (900-2½)	2520-3 886 (900-3)

ELEV 1634

TDZE 1613

4155 X 75

1.3% UP

26

MIRL Rwy 8-26

APP CRS 344°	Rwy Idg TDZE Apt Elev	N/A N/A 2437
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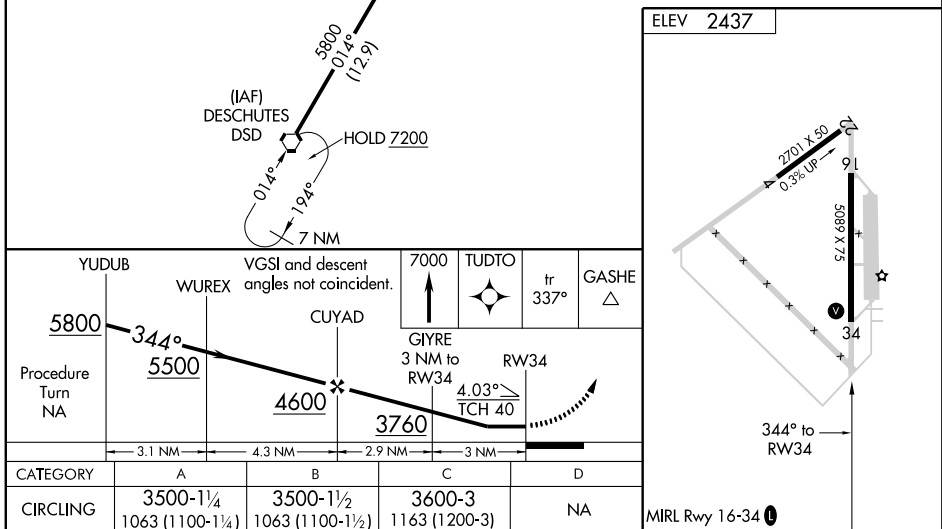
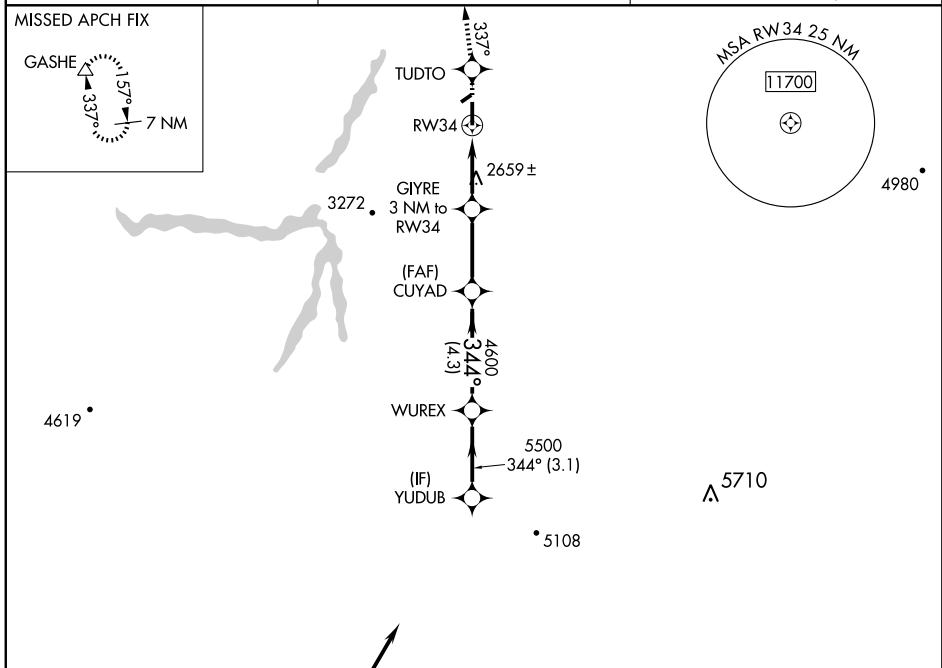
RNAV (GPS)-A

MADRAS MUNI (S33)

NA DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Use Redmond altimeter setting; when not received, procedure NA.

MISSED APPROACH: Climb to 7000 direct TUDTO and on track 337° to GASHE and hold, continue climb-in-hold to 7000.

REDMOND ASOS 119.025	SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF)
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WAAS CH 93518 W16A	APP CRS 164°	Rwy Idg TDZE Apt Elev	5089 2433 2437
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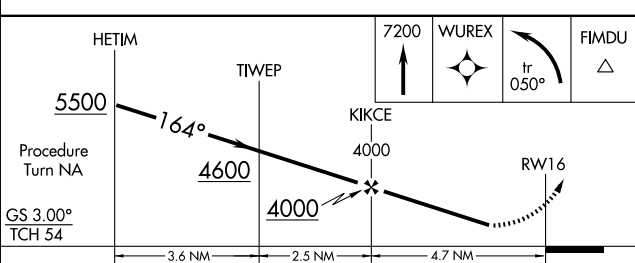
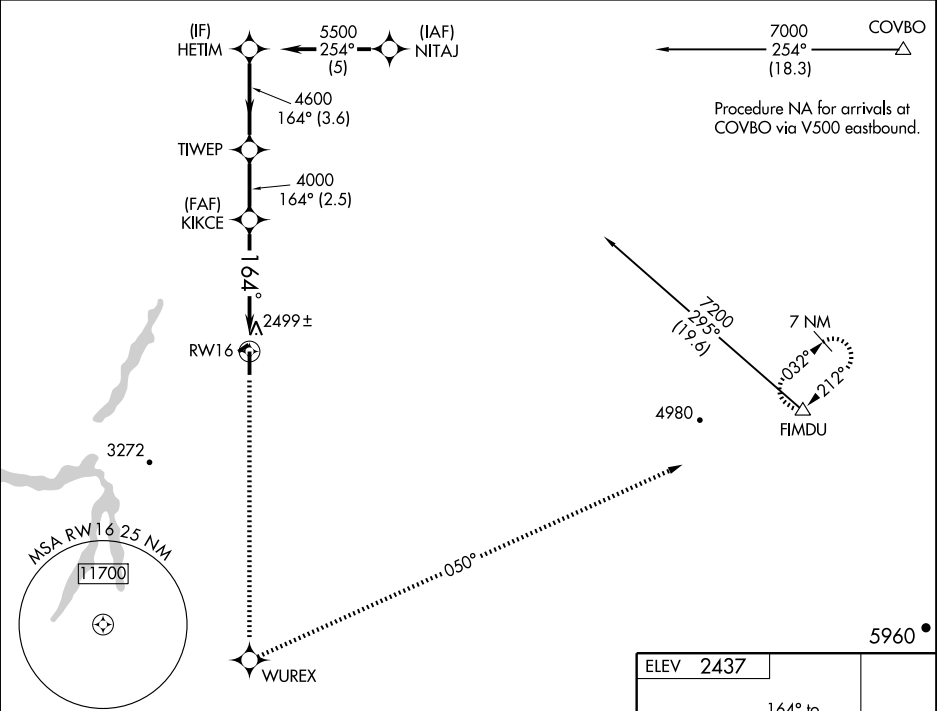
RNAV (GPS) RWY 16

MADRAS MUNI (S33)

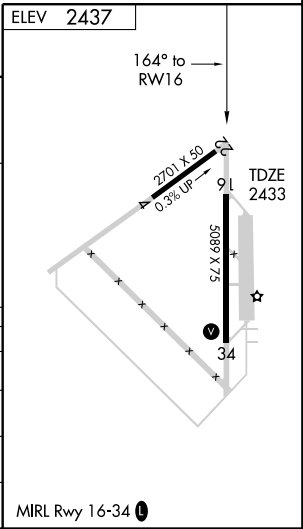
Baro-VNAV NA. DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.
Use Redmond altimeter setting; when not received, procedure NA.

MISSED APPROACH: Climb to 7200 direct WUREX
and left turn on track 050° to FIMDU and hold.

REDMOND ASOS 119.025	SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA	3263-3	830 (900-3)		NA
LNAV/VNAV DA	3349-4	916 (1000-4)		NA
LNAV MDA	3440-1¼ 1007 (1100-1¼)	3440-1½ 1007 (1100-1½)	3440-3 1007 (1100-3)	NA
CIRCLING	3460-1¼ 1023 (1100-1¼)	3480-1½ 1043 (1100-1½)	3600-3 1163 (1200-3)	NA



MIRL Rwy 16-34 0

LOC I-MMV <u>110.9</u>	APP CRS 218°	Rwy Idg TDZE Apt Elev	5420 161 163
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ILS or LOC RWY 22

MC MINNVILLE MUNI (MMV)


T DME Required.

A When local altimeter setting not received, use Aurora State
altimeter setting and increase all DA and MDA 60 feet.
Increase all visibility $\frac{1}{4}$ mile.

MALSR

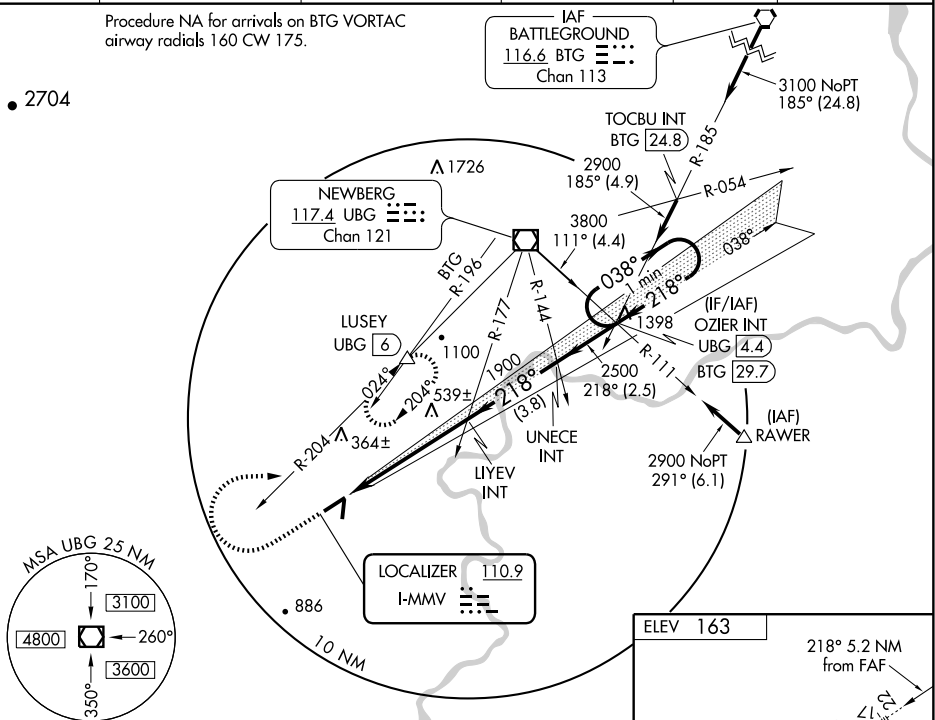


MISSED APPROACH: Climb to 900 then climbing right turn to 3000 via heading 069° and UBG VOR/DME R-204 to LUSEY/UBG VOR/DME 6 DME and hold, continue climb-in-hold to 3000. When authorized by ATC, climb-in-hold to 6000.

ASOS 135.675	PORTLAND APP CON 126.0 284.6 (NORTH)	SEATTLE CENTER 125.8 291.7 (SOUTH)	McMINNVILLE RADIO 122.45	CLNC DEL 118.35	UNICOM 123.0 (CTAF) 
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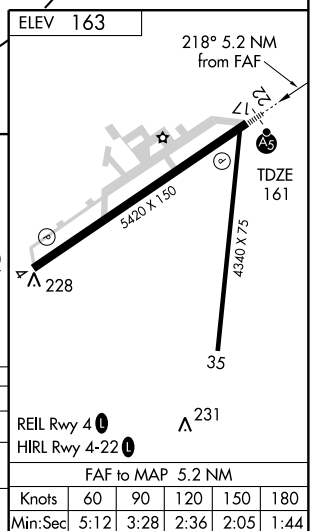
Procedure NA for arrivals on BTG VORTAC
airway radials 160 CW 175.

2704



NW-1. 03 JUN 2010 to 01 JUL 2010

CATEGORY	A	B	C	D
S-ILS 22	361- $\frac{1}{2}$ 200 (200- $\frac{1}{2}$)			
S-LOC 22	600- $\frac{1}{2}$ 439 (500- $\frac{1}{2}$)	600- $\frac{3}{4}$ 439 (500- $\frac{3}{4}$)	600-1 439 (500-1)	
CIRCLING	640-1 477 (500-1)	760-1 $\frac{1}{2}$ 597 (600-1 $\frac{1}{2}$)	880-2 $\frac{1}{4}$ 717 (800-2 $\frac{1}{4}$)	

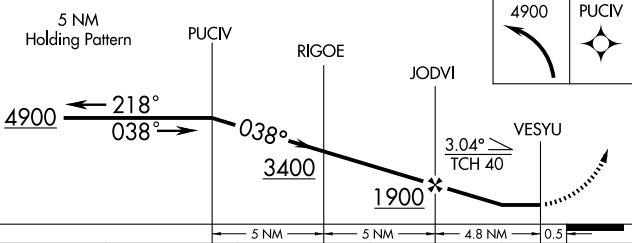
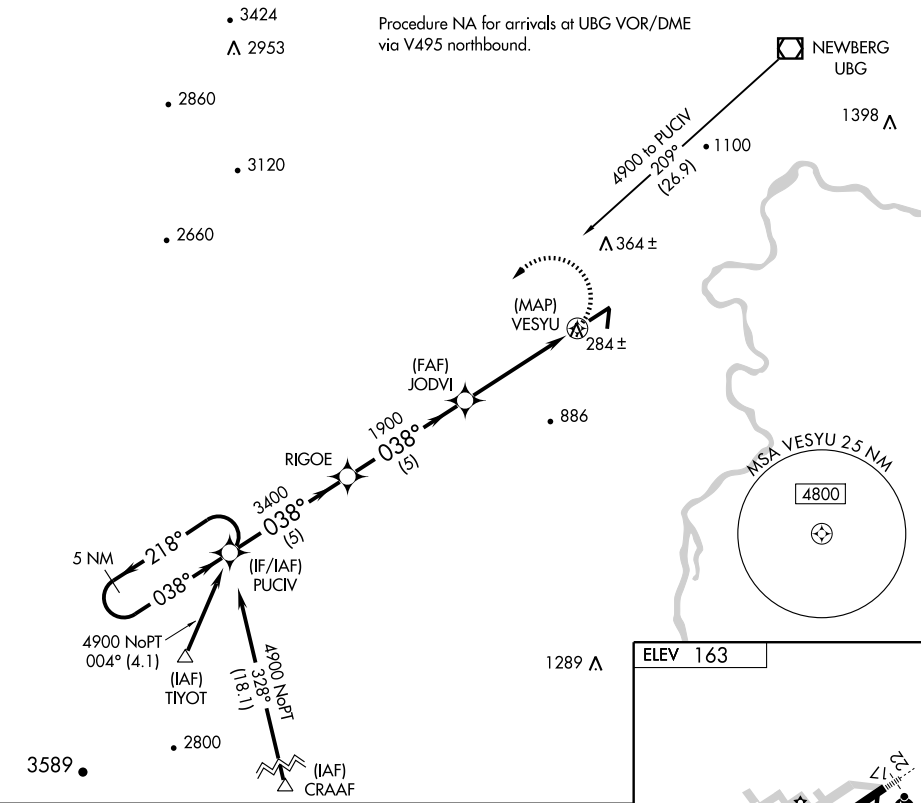


APP CRS	Rwy Idg	5420
038°	TDZE	161
	Apt Elev	163

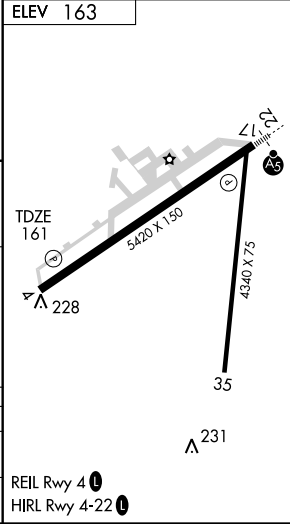
⚠ DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
⚠ When local altimeter setting not received, use Aurora State altimeter setting and increase all MDA 60 feet and all visibility ¼ mile.

MISSED APPROACH: Climbing left turn to 4900 direct PUCIV and hold, continue climb-in-hold to 4900.

ASOS	PORTLAND APP CON	SEATTLE CENTER	McMINNVILLE RADIO	CLNC DEL	UNICOM
135.675	126.0 284.6 (NORTH)	125.8 291.7 (SOUTH)	122.45	118.35	123.0 (CTAF) 1



CATEGORY	A	B	C	D
RNAV MDA	580-1	419 (500-1)	580-1¼	419 (500-1¼)
CIRCLING	640-1	477 (500-1)	760-1½ 597 (600-1½)	880-2¼ 717 (800-2¼)



NW-1. 03 JUN 2010 to 01 JUL 2010

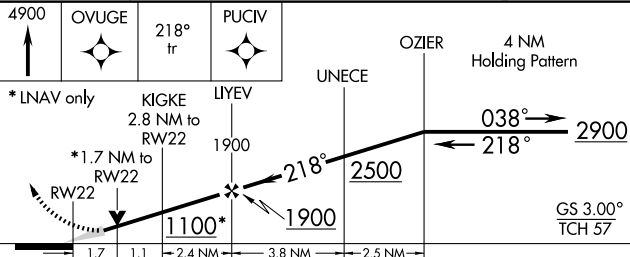
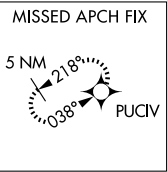
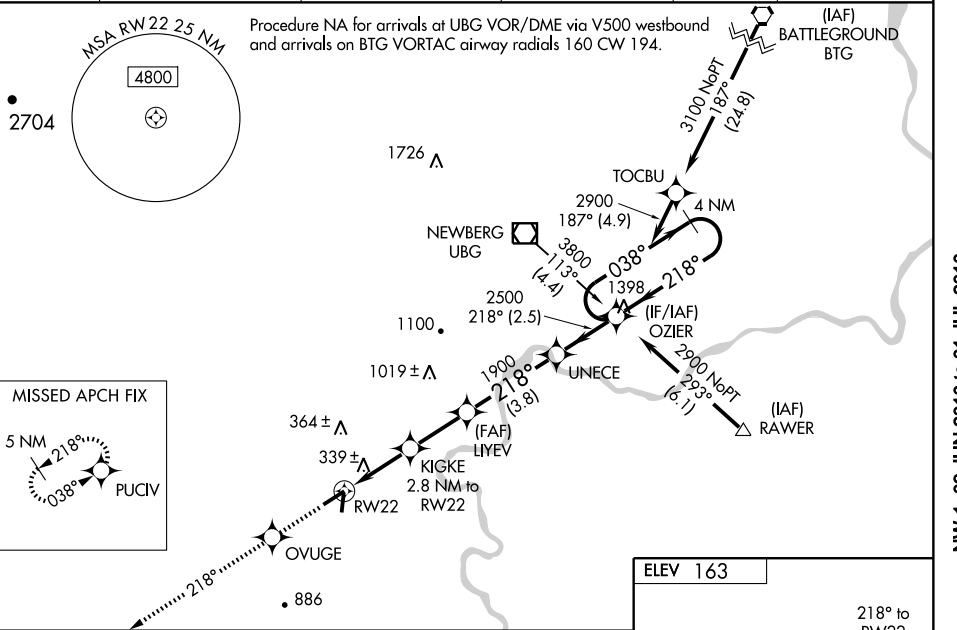
WAAS CH 50309 W22A	APP CRS 218°	Rwy Idg TDZE Apt Elev	5420 161 163
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⚠ For inoperative MALSR, increase LPV all Cats. visibility to 1. Baro-VNAV NA when using Aurora State altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. For inoperative MALSR when using Aurora State altimeter setting increase LPV visibility all Cats. to 1 ¼. VDP NA when using Aurora State altimeter setting. When local altimeter setting not received, use Aurora State altimeter setting and increase all DA and MDA 60 feet, increase all visibility ¼ mile.

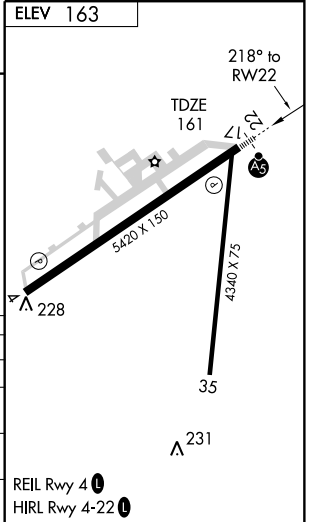
MALSR

MISSED APPROACH: Climb to 4900 direct OVUGE then via 218° track to PUCIV and hold, continue climb-in-hold to 4900.

ASOS 135.675	PORTLAND APP CON 126.0 284.6 (NORTH)	SEATTLE CENTER 125.8 291.7 (SOUTH)	McMINNVILLE RADIO 122.45	CLNC DEL 118.35	UNICOM 123.0 (CTAF) 1
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CATEGORY	A	B	C	D
LPV DA	474-1 2		313 (400-1 2)	
LNAV/VNAV DA	633-1 1 4		472 (500-1 1 4)	
LNAV MDA	740-1 2 579 (600-1 2)		740-1 579 (600-1)	740-1 1 4 579 (600-1 1 4)
CIRCLING	740-1 577 (600-1)		760-1 1 2 597 (600-1 1 2)	880-2 1 4 717 (800-2 1 4)

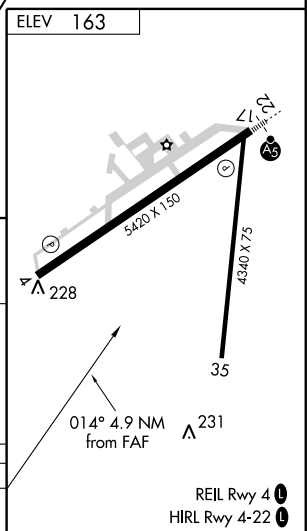
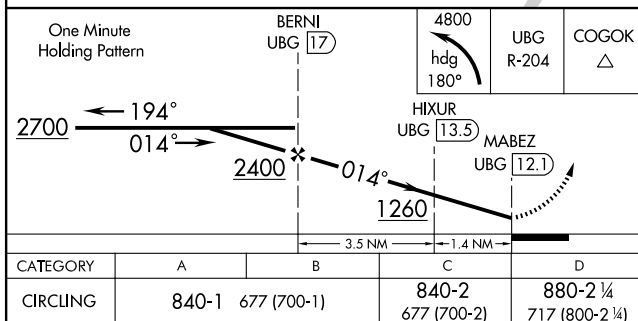
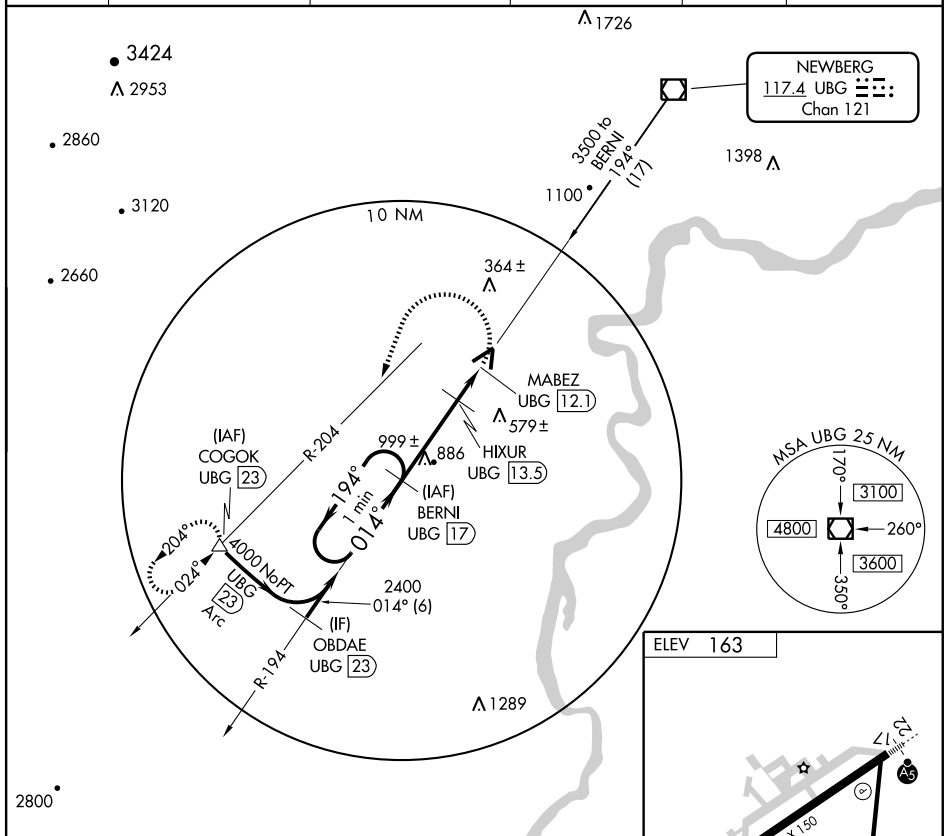


NW-1. 03 JUN 2010 to 01 JUL 2010

N/A
N/A
163

MISSED APPROACH: Climbing left turn to 4800 via heading 180° and UBG VOR/DME R-204 to COGOK/UBG 23 DME and hold, continue climb-in-hold to 4800. When authorized by ATC, climb-in-hold to 6000.

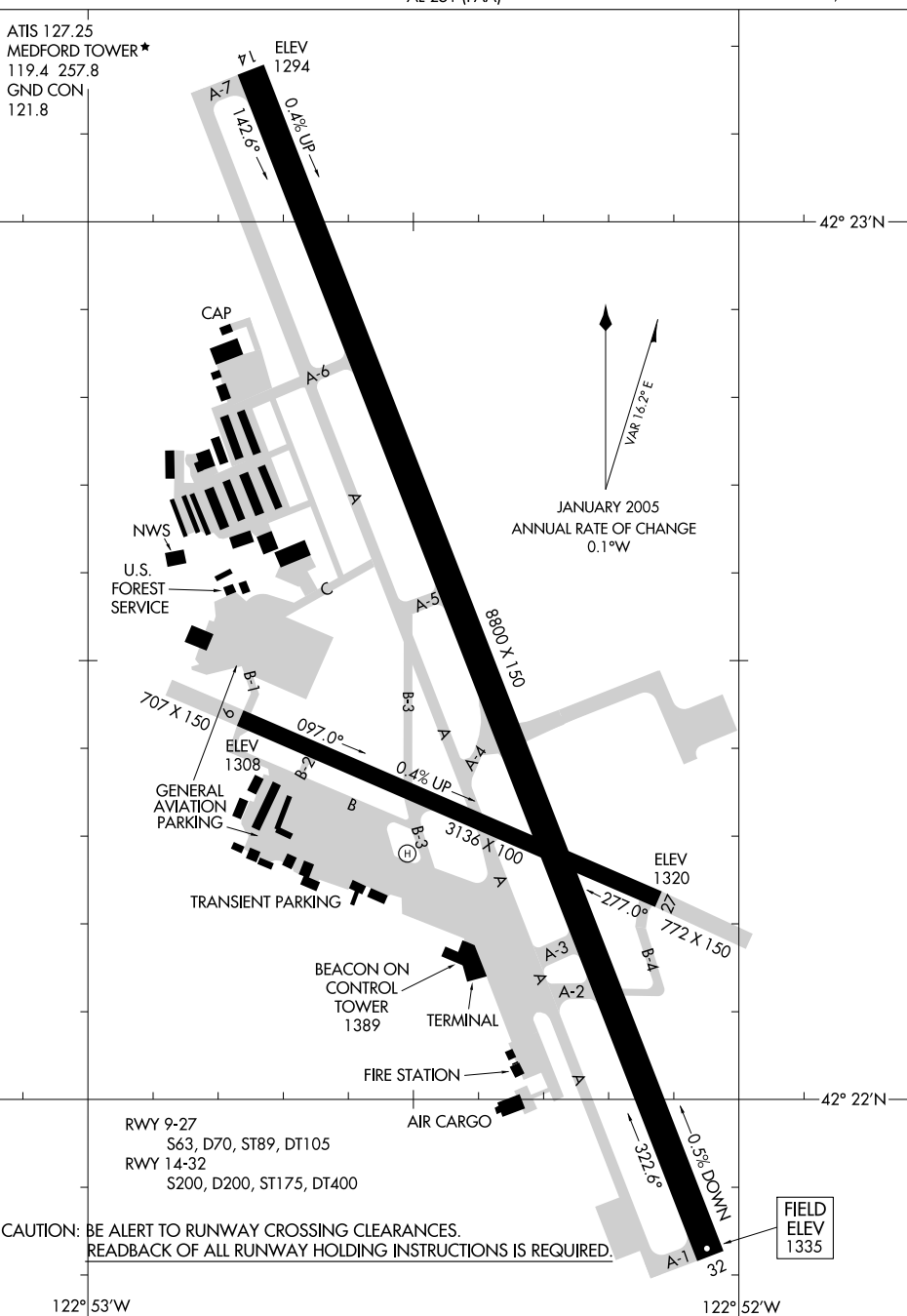
ASOS 135.675	PORTLAND APP CON 126.0 284.6 (NORTH)	SEATTLE CENTER 125.8 291.7 (SOUTH)	McMINNVILLE RADIO 122.45	CLNC DEL 118.35	UNICOM 123.0 (CTAF) 
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AIRPORT DIAGRAM

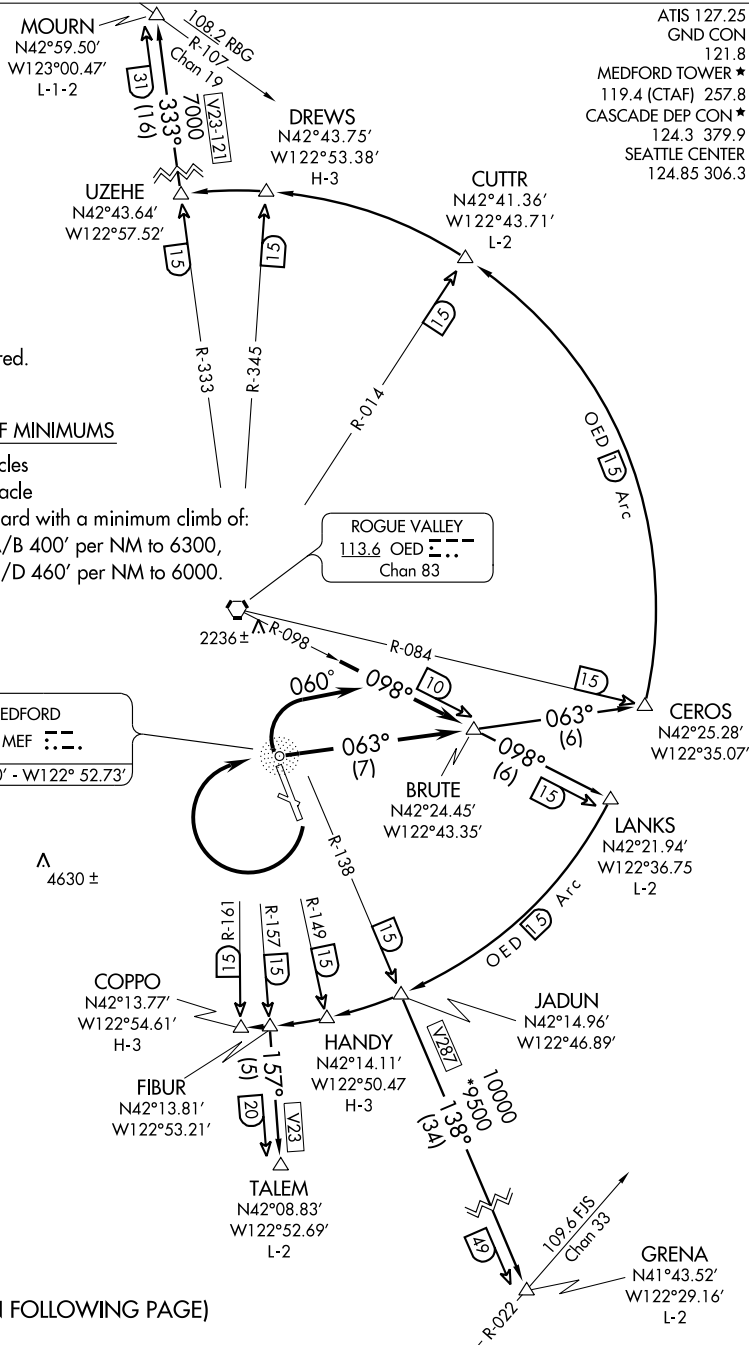
MEDFORD/ ROGUE VALLEY INTL-MEDFORD (MFR)
AL-251 (FAA) MEDFORD, OREGON

ATIS 127.25
MEDFORD TOWER ★
119.4 257.8
GND CON
121.8



NW-1, 03 JUN 2010 to 01 JUL 2010

BRUTE FIVE DEPARTURE

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MF'R)
SL-251 (FAA) MEDFORD, OREGON

(NARRATIVE ON FOLLOWING PAGE)

BRUTE FIVE DEPARTURE



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 14: Climbing right turn direct to MEF NDB, depart MEF NDB 063° bearing outbound to BRUTE INT. Thence. . . .

TAKE-OFF RUNWAY 32: Climbing right turn via 060° heading and OED R-098 to BRUTE INT. Thence. . . .

. . . . via (transition) or (assigned route). Maintain 11000 or assigned altitude.

COPPO TRANSITION (BRUTE5.COPPO) : From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to COPPO DME.

CUTTR TRANSITION (BRUTE5.CUTTR) : From over BRUTE INT via MEF NDB bearing 063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to CUTTR DME.

DREWS TRANSITION (BRUTE5.DREWS) : From over BRUTE INT via MEF NDB bearing 063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to DREWS DME.

GRENA TRANSITION (BRUTE5.GRENA) : From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to JADUN DME. Then via OED R-138 to GRENA INT.

HANDY TRANSITION (BRUTE5.HANDY) : From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to HANDY DME.

LANKS TRANSITION (BRUTE5.LANKS) : From over BRUTE INT via OED R-098 to LANKS INT.

MOURN TRANSITION (BRUTE5.MOURN) : From over BRUTE INT via MEF NDB bearing 063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to UZEHE DME. Then via OED R-333 to MOURN INT.

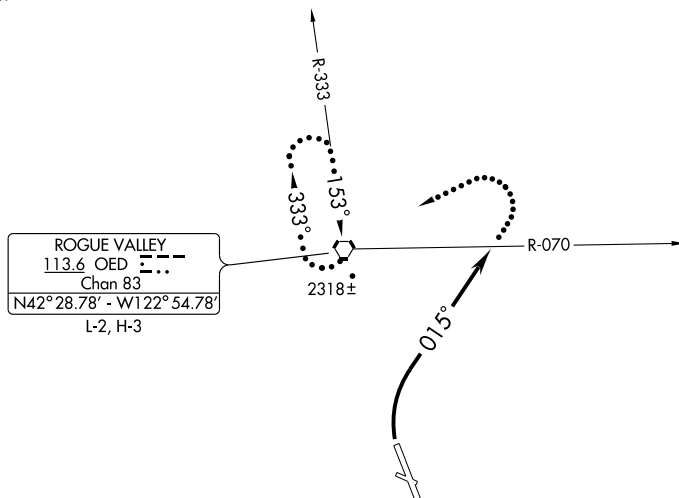
TALEM TRANSITION (BRUTE5.TALEM) : From over BRUTE INT via OED R-098 to LANKS INT. Turn right and proceed via the OED 15 DME Arc to FIBUR DME. Then via OED R-157 to TALEM DME.

UZEHE TRANSITION (BRUTE5.UZEHE) : From over BRUTE INT via MEF NDB bearing 063° to CEROS INT. Turn left and proceed via the OED 15 DME Arc to UZEHE DME.

EAGLE THREE DEPARTURE

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MF'R)
SL-251 (FAA) MEDFORD, OREGON

ATIS 127.25
GND CON
121.8
MEDFORD TOWER ★
119.4 257.8
CASCADE DEP CON ★
124.3 379.9
SEATTLE CENTER
124.85 306.3

TAKE-OFF MINIMUMS

RWY 32: 1700-3 or standard with minimum climb
of 300' per NM to 3000'.

RWYS 9, 14, and 27: Not authorized for this departure procedure.

ATC climb rate of 410' per NM until passing 6300 required.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 32: Climbing right turn to heading 015°, maintain 11000' or assigned altitude, expect radar vectors to assigned route.
Expect filed altitude/flight level five minutes after departure.

LOST COMMUNICATIONS: If no contact with ATC crossing the OED R-070, turn left, proceed direct OED VORTAC, continue climb in holding pattern (NW, right turn, 153° inbound) to minimum crossing altitude/minimum enroute altitude before proceeding on course.

CTAF 119.4



NOTE: Chart not to scale

GNATS THREE DEPARTURE

SL-251 (FAA)

MEDFORD, OREGON



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 14: Climbing right turn via 340° heading and MEF NDB 269° bearing outbound to GNATS INT. Thence. . . .

TAKE-OFF RUNWAY 27: Climbing right turn via 285° heading and MEF NDB 269° bearing outbound to GNATS INT. Thence. . . .

TAKE-OFF RUNWAY 32: Climbing left turn via MEF NDB 269° bearing outbound to GNATS INT. Thence. . . .

. . . .via (transition) or (assigned route). Maintain 10,000' or assigned lower altitude.

COPPO TRANSITION (GNATS3.COPPO): From over GNATS INT via OED R-216 to OLECY INT, then via the OED 15 DME Arc to COPPO DME.

DREWS TRANSITION (GNATS3.DREWS): From over GNATS INT via the MEF NDB 269° bearing to MERLI INT, then via the OED 15 DME Arc to DREWS DME.

HANDY TRANSITION (GNATS3.HANDY): From over GNATS INT via the OED R-216 to OLECY INT, then via the OED 15 DME Arc to HANDY DME.

KOLER TRANSITION (GNATS3.KOLER): From over GNATS INT via MEF NDB 269° bearing to MERLI INT, then via RBG R-154 to KOLER INT.

MOURN TRANSITION (GNATS3.MOURN): From over GNATS INT via MEF NDB 269° bearing to MERLI INT, then via the OED 15 DME Arc to intercept OED R-333 to MOURN INT.

TALEM TRANSITION (GNATS3.TALEM): From over GNATS INT via OED R-216 to OLECY INT, then via the OED 15 DME Arc to intercept OED R-157 to TALEM DME.

LOC/DME I-MFR <u>110.3</u> Chan 40	APP CRS 140°	Rwy Idg 8800 TDZE 1303 Apt Elev 1335
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ILS or LOC/DME RWY 14

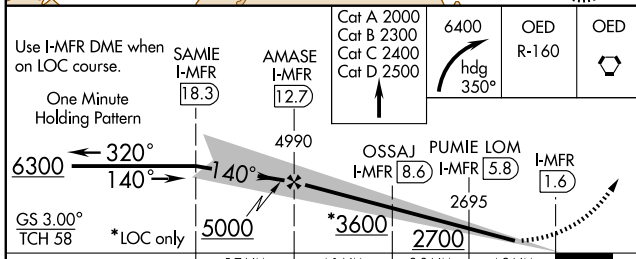
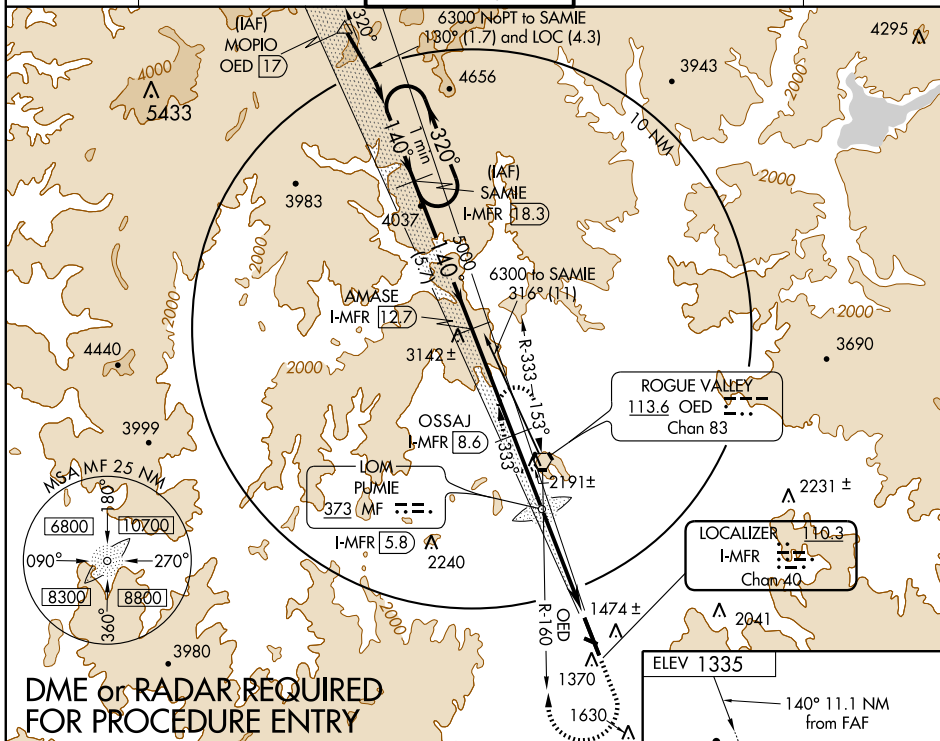
MEDFORD/ ROGUE VALLEY INTL-MEDFORD (MFR)

T For inoperative MALS, increase S-ILS 14 CAT B visibility to RVR 6000, CAT C visibility to 1½ mile, and CAT D visibility to 2 miles.

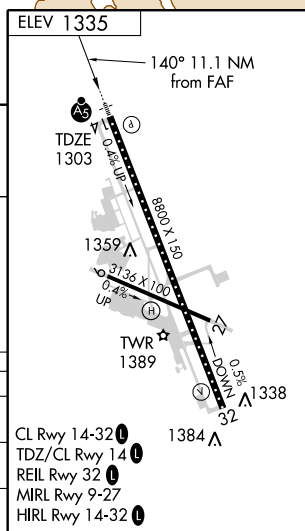
MALSR
A5

MISSED APPROACH: Cat A climb to 2000; Cat B climb to 2300; Cat C climb to 2400; Cat D climb to 2500, then climbing right turn to 6400 via heading 350° and OED R-160 to OED VORTAC and hold, continue climb-in-hold to 6400.

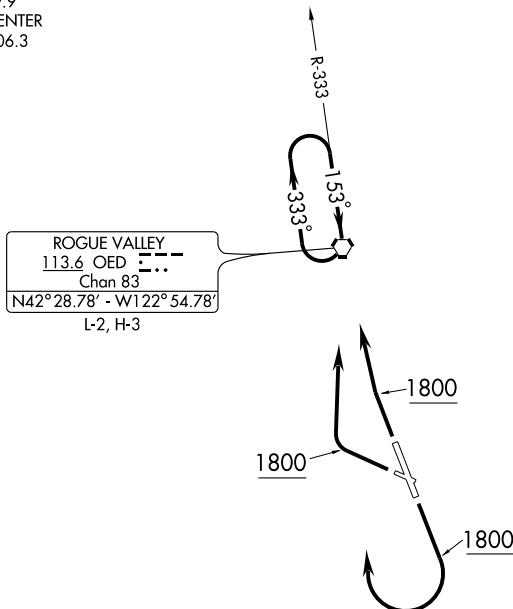
ATIS 127.25	CASCADE APP CON* 124.3 379.9	MEDFORD TOWER* 119.4 (CTAF) 0257.8	GND CON 121.8	UNICOM 122.95
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CATEGORY	A	B	C	D
S-ILS 14	1553/24 250 (300-½)	1634/40 331 (300-¾)	1753/50 450 (500-1)	1862-1½ 559 (600-1½)
S-LOC 14	1640/24 337 (400-½)	1800/24 497 (500-½)	1920/60 617 (600-1¼)	2000-1¾ 697 (700-1¾)
CIRCLING	2000-1	665 (700-1)	2000-1¾ 665 (700-1¾)	2140-2½ 805 (900-2½)



ATIS 127.25
GND CON
121.8
MEDFORD TOWER ★
119.4 257.8
CASCADE DEP CON ★
124.3 379.9
SEATTLE CENTER
124.85 306.3

TAKE-OFF MINIMUMS

RWY 9: Not authorized.

RWY 14: Standard with a minimum climb of:

Cats A/B, 270' per NM to 3100', Cats C/D, 440' per NM to 4900.

RWY 27: Standard with minimum climb of 360' per NM to 3600.

RWY 32: Standard with a minimum climb of 300' per NM to 3000.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Not authorized.

TAKE-OFF RUNWAYS 14 and 27: Climb runway heading to 1800 then turn right. Thence. . . .

TAKE-OFF RUNWAY 32: Climb runway heading to 1800. Thence. . . .

. . . . climb direct to the OED VORTAC. Continue climb in OED holding pattern (NW, right turn, 153° inbound) at or above 7000' before proceeding on course.

LOC/DME I-MFR 110.3 Chan 40	APP CRS 320°	Rwy Idg TDZE Apt Elev	N/A N/A 1331
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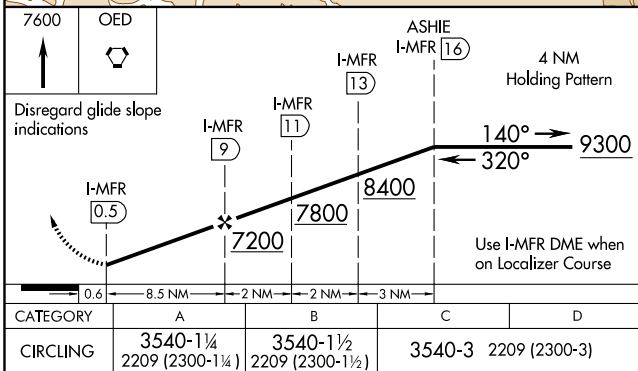
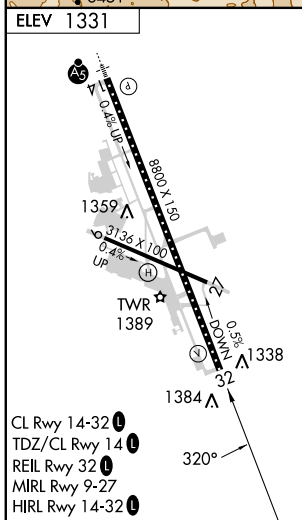
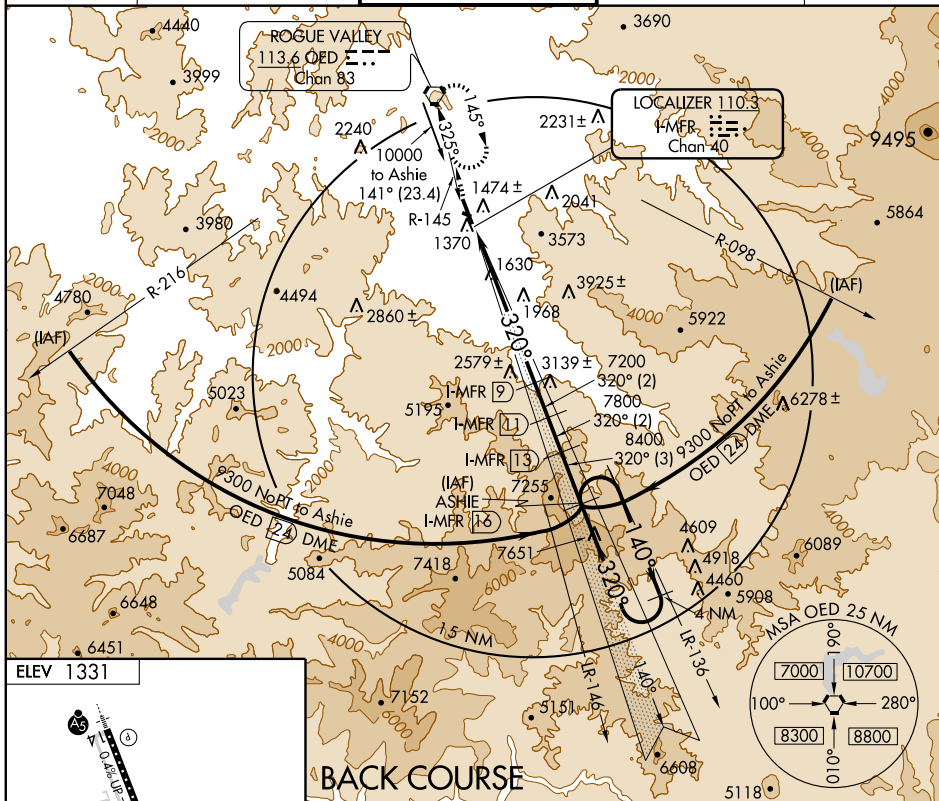
LOC/DME BC-B

MEDFORD/ ROGUE VALLEY INTL-MEDFORD (MFR)



MISSED APPROACH: Climb to 7600 direct OED VORTAC and hold, continue climb-in-hold to 7600.

ATIS 127.25	CASCADE APP CON* 124.3 379.9	MEDFORD TOWER* 119.4 (CTAF) 257.8	GND CON 121.8	UNICOM 122.95
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APP CRS
325°

Rwy Idg
TDZE
Apt Elev

N/A
N/A
1335

RNAV (GPS)-D

MEDFORD/ROGUE VALLEY INTL-MEDFORD (MFR)



DME/DME RNP-0.3 not authorized.

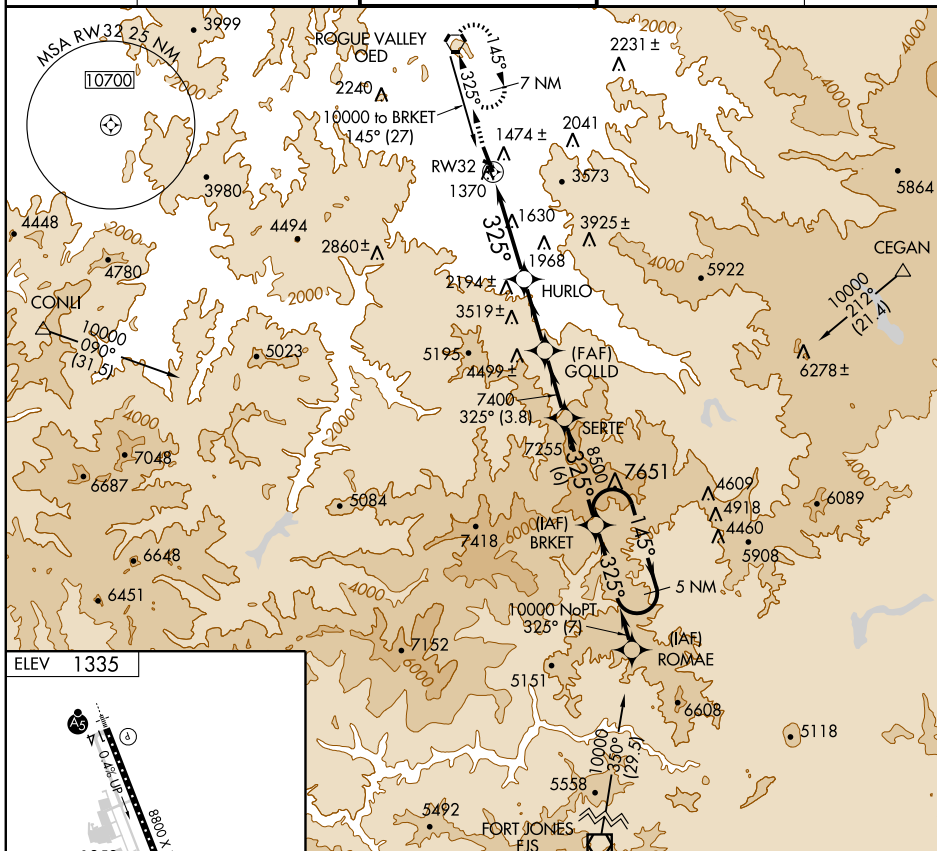
MISSED APPROACH: Climb to 7800 direct OED VORTAC and hold, continue climb-in-hold to 7800.

ATIS
127-25

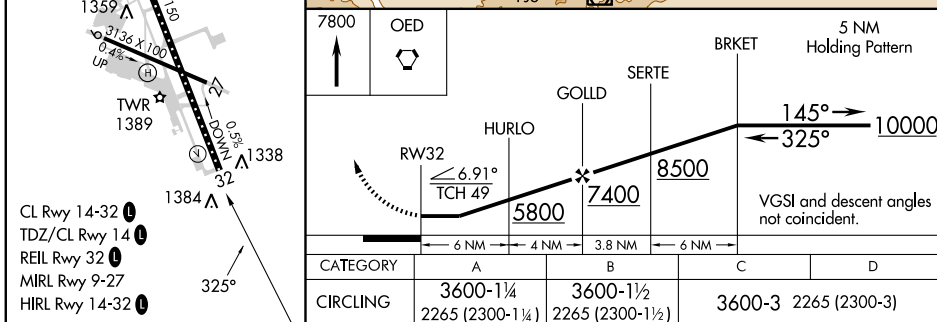
CASCADE APP CON★
124.3 379.9

MEDFORD TOWER★
119.4 (CTAF) **L** 257.8

GND CON
121.8

UNICOM
122.95

NW-1. 03 JUN 2010 to 01 JUL 2010



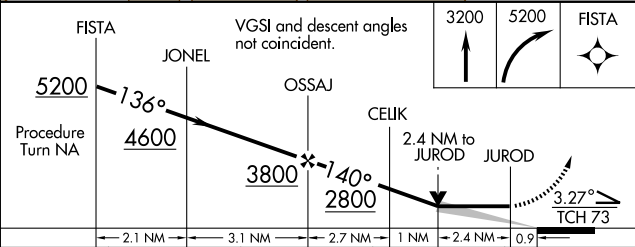
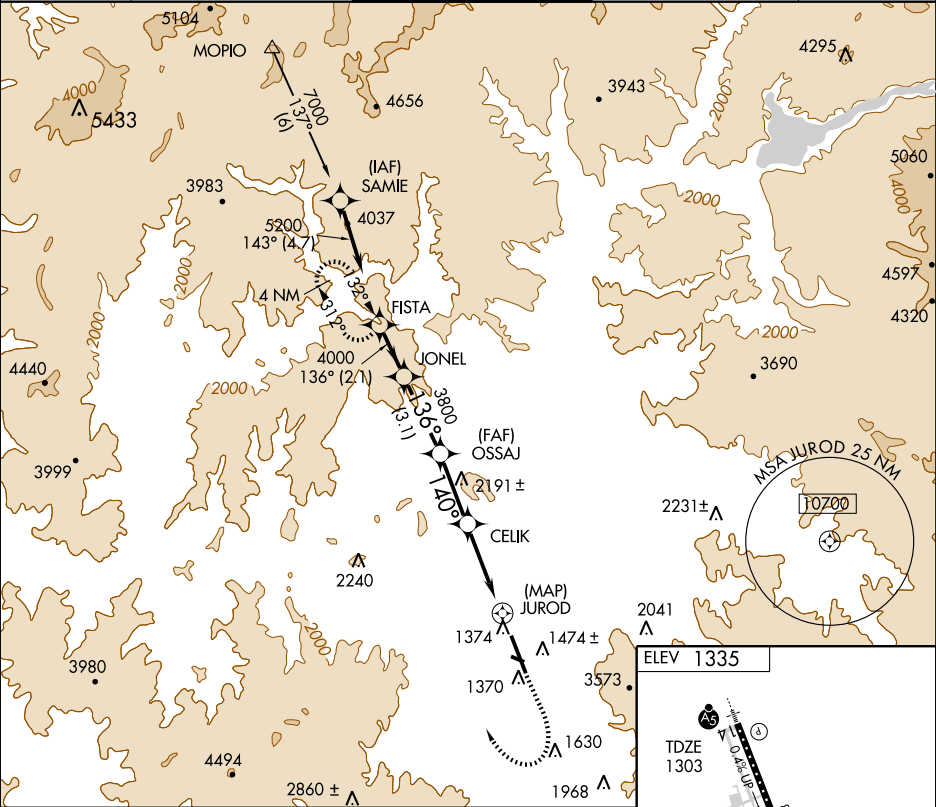
APP CRS	Rwy Idg	8800
140°	TDZE	1303
	Apt Elev	1335

RNAV (GPS) RWY 14

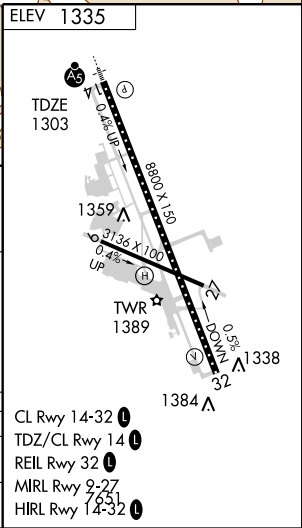
MEDFORD/ROGUE VALLEY INTL-MEDFORD (MFR)

	DME/DME RNP-0.3 NA.		MISSED APPROACH: Climb to 3200 then climbing right turn to 5200 direct FISTA WP and hold.
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ATIS 127.25	CASCADE APP CON* 124.3 379.9	MEDFORD TOWER* 119.4 (CTAF) 0 257.8	GND CON 121.8	UNICOM 122.95
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CATEGORY	A	B	C	D
LNAV MDA	2400/40 1097 (1100-¾)	2400/50 1097 (1100-1)	2400-2½ 1097 (1100-2½)	
CIRCLING	2400-1¼ 1065 (1100-1¼)	2400-1½ 1065 (1100-1½)	2400-3 1065 (1100-3)	



MEDFORD/ ROGUE VALLEY INTL-MEDFORD (MFR)

MISSED APPROACH: Climb to 2900 then climbing right turn to 6400 direct OED VORTAC and hold, continue climb-in-hold to 6400.

Remain within 10 NM

VORTAC

6300

342°

162°

4600

146°

5.8 NM

2900	6400	OED
↑	↗	⬡

OED 5.8

FAF to MAP 5.8 NM							CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	2680-1¼	2680-1½	2680-3 1345 (1400-3)		
Min:Sec	5:48	3:52	2:54	2:19	1:56		1345 (1400-1¼)	1345 (1400-1½)			

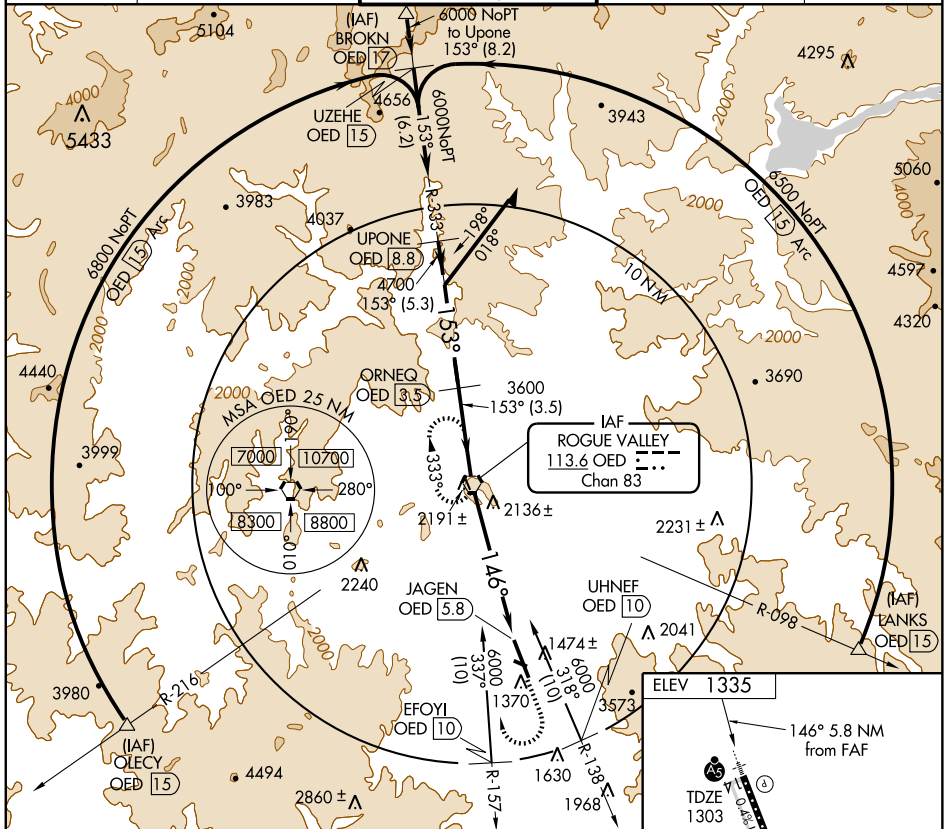
VORTAC OED	APP CRS	Rwy Idg	8800
113.6	146°	TDZE	1303
Chan 83		Apt Elev	1335

VOR/DME RWY 14

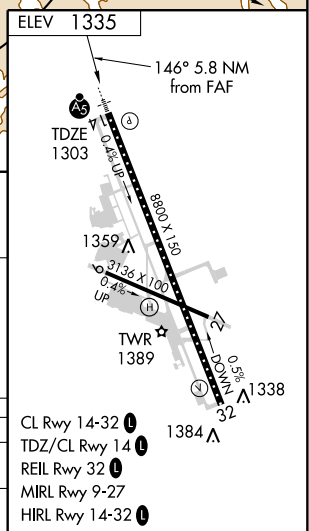
MEDFORD/ROGUE VALLEY INTL-MEDFORD (MFR)

V A	Inoperative table does not apply to S-14 CAT A. For inoperative MALS increase S-14 CAT B visibility to 1½.	MALS AS	MISSED APPROACH: Climb to 2900 then climbing right turn to 6400 direct OED VORTAC and hold, continue climb-in-hold to 6400.
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ATIS 127.25	CASCADE APP CON* 124.3 379.9	MEDFORD TOWER* 119.4 (CTAF) 0 257.8	GND CON 121.8	UNICOM 122.95
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Remain within 12 NM	VORTAC	2900	6400	OED
333°	ORNEQ OED 3.5	3.63° TCH 73	JAGEN OED 5.8	
6000	4700	3600		
VGSI and descent angles not coincident.				
	3.5 NM	1.7 NM	4.1 NM	
CATEGORY	A	B	C	D
S-14	2680/60	1377 (1400-1¼)	2680-2½	1377 (1400-2½)
CIRCLING	2680-1¼ 1345 (1400-1¼)	2680-1½ 1345 (1400-1½)	2680-3	1345 (1400-3)



LOC I-ONP <u>111.5</u>	APP CRS 158°	Rwy Idg TDZE Apt Elev	5398 151 160
----------------------------------	------------------------	-----------------------------	---

ILS or LOC RWY 16
NEWPORT MUNI (ONP)



A NA

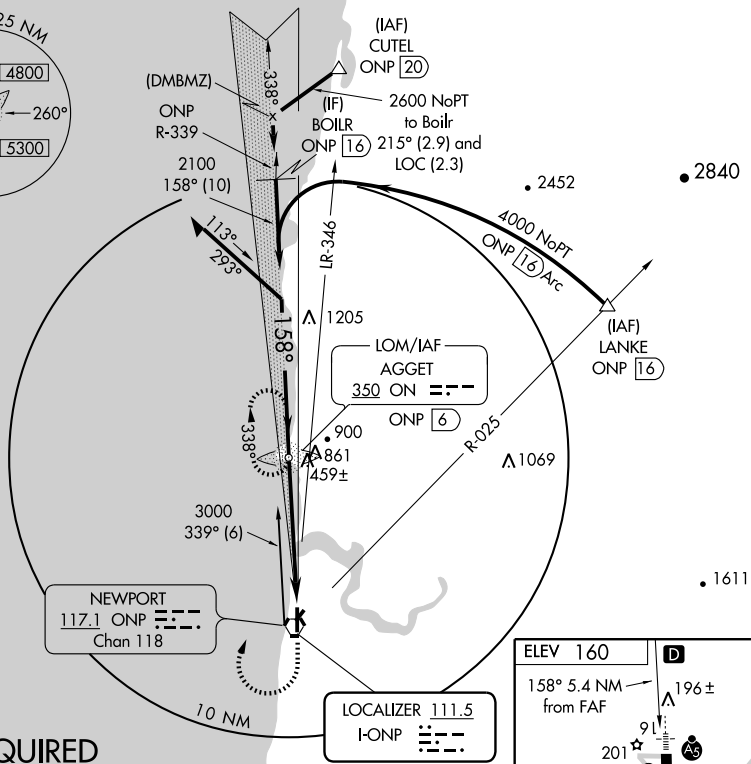
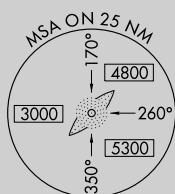


MISSED APPROACH: Climb to 600 then climbing right turn to 3000 direct AGGET LOM/ONP 6 DME and hold.

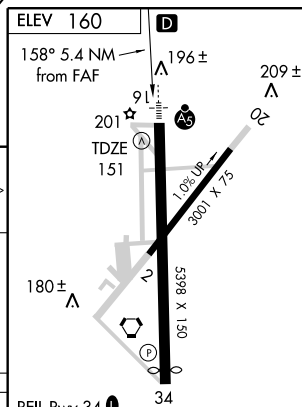
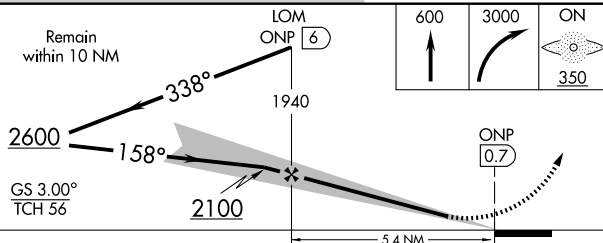
AWOS-3
133.9

SEATTLE CENTER
125.8 291.7

MCMINNIVILLE RADIO
122.5

UNICOM
122.8 (CTAF) 

ADF REQUIRED



CATEGORY	A	B	C	D
S-ILS 16	351-¾ 200 (200-¾)			
S-LOC 16	720-¾ 569 (600-¾)		569 (600-1½)	720-1¾ 569 (600-1¾)
CIRCLING	880-1	720 (800-1)	880-2 720 (800-2)	960-2½ 800 (800-2½)

FAF to MAP 5.4 NM					
Knots	60	90	120	150	180
Min:Sec	5:24	3:36	2:42	2:10	1:48

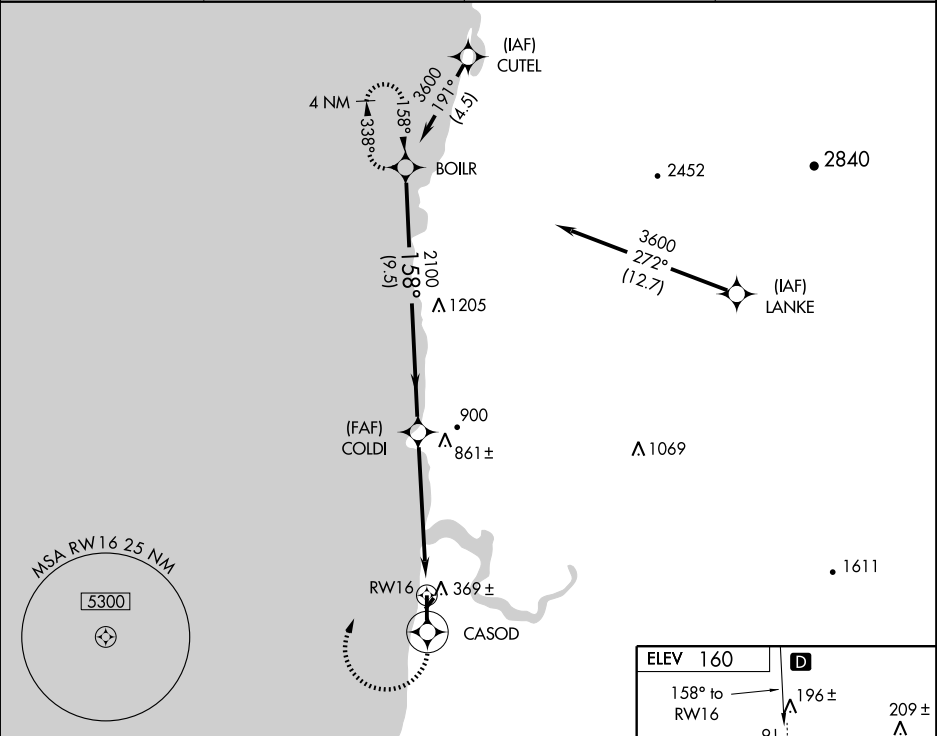
APP CRS	Rwy Idg	5398
158°	TDZE	151
	Apt Elev	160

RNAV (GPS) RWY 16

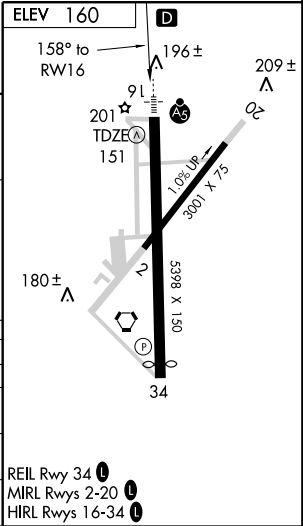
NEWPORT MUNI (ONP)

<p>NA</p> <p>Inoperative table does not apply to LNAV/VNAV, GPS or RNP-0.3 required. DME/DME RNP-0.3 NA. Baro-VNAV NA below -15°C (5°F).</p>	<p>MALSR</p> <p></p>	<p>MISSED APPROACH: Climb to 800 via 158° course to CASOD WP then climbing right to 3600 direct BOILR WP and hold.</p>
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AWOS-3 133.9	SEATTLE CENTER 125.8 291.7	MCMINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF) 0
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Procedure Turn NA	BOILR	800	CASOD	3600	BOILR
		158°			
GS 3.00° TCH 56					
	3600	158°	COLDI	2100	RW16
					VGSI and descent angles not coincident.
		9.5 NM		5.8 NM	
CATEGORY	A	B	C	D	
GLS PA DA					NA
LNAV/VNAV DA		620-1½	469 (500-1½)		
LNAV MDA	720-¾ 569 (600-¾)		720-1½ 569 (600-1½)	720-1¾ 569 (600-1¾)	
CIRCLING	880-1½ 720 (800-1½)		880-2 720 (800-2)	960-2½ 800 (800-2½)	



APP CRS	Rwy Idg	5098
328°	TDZE	155
	Apt Elev	160

RNAV (GPS) RWY 34
NEWPORT MUNI (ONP)

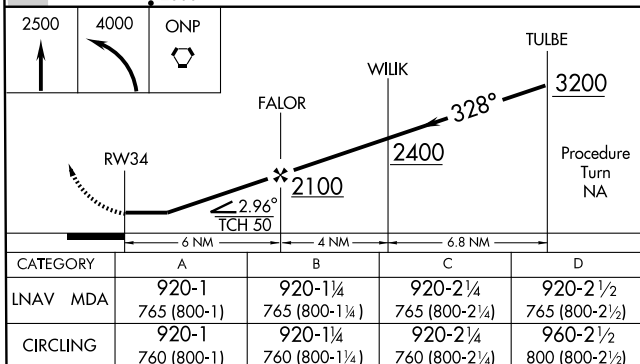
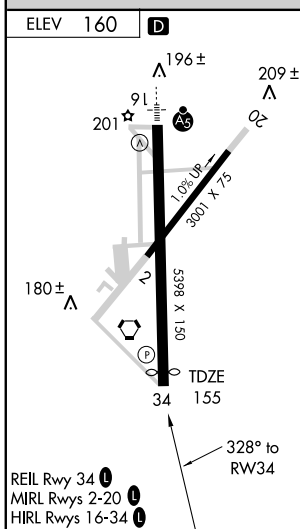
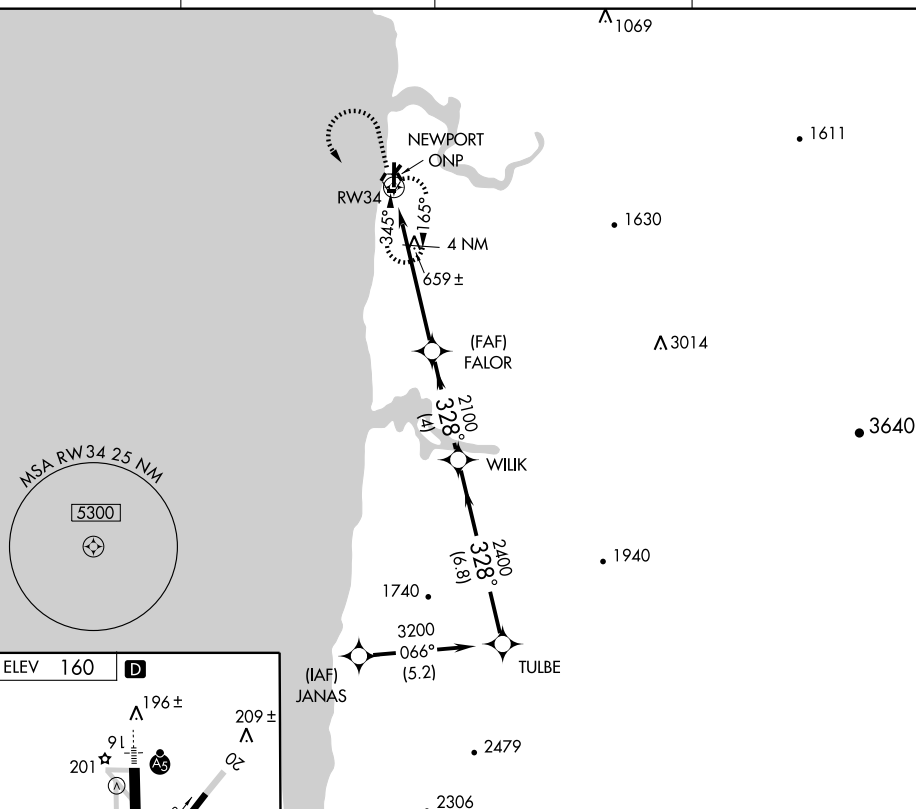
T
A NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 2500, then climbing left turn to 4000 direct ONP VORTAC and hold.

AWOS-3
133.9


SEATTLE CENTER
125.8 291.7

MCMINNVILLE RADIO
122.5

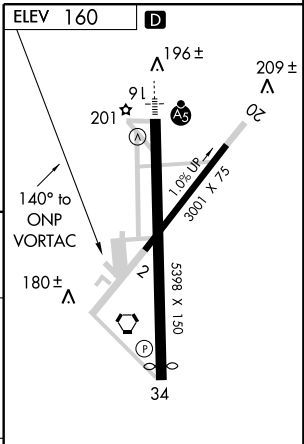
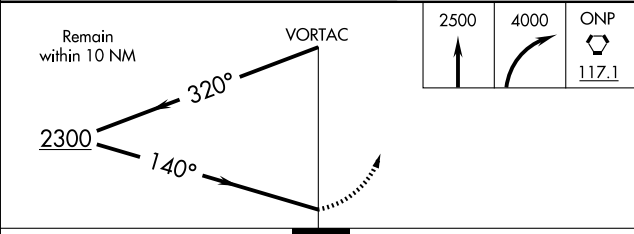
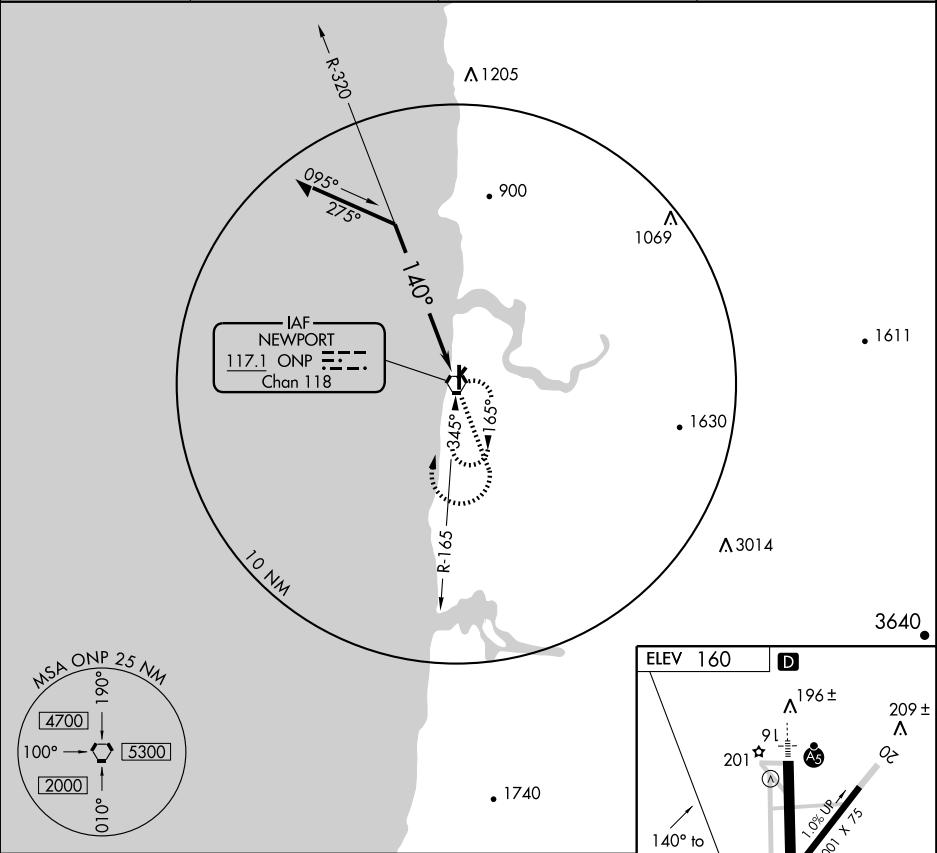
UNICOM
122.8 (CTAF) **L**

VORTAC ONP 117.1 Chan 118	APP CRS 140°	Rwy Idg TDZE Apt Elev	N/A N/A 160
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VOR-A
NEWPORT MUNI (ONP)

 NA	MISSED APPROACH: Climb to 2500, then climbing right turn to 4000, direct ONP VORTAC and hold.
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AWOS-3 133.9	SEATTLE CENTER 125.8 291.7	MCMINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF) 
------------------------	--------------------------------------	-----------------------------------	---



CATEGORY	A	B	C	D
CIRCLING	1160-1¼ 1000 (1000-1¼)	1160-1½ 1000 (1000-1½)	1160-3	1000 (1000-3)

REIL Rwy 34 
MIRL Rwy 2-20 
HIRL Rwy 16-34 

AL-735 (FAA)

VORTAC ONP	APP CRS	Rwy Idg	5398
<u>117.1</u>	166°	TDZE	151
Chan 118		Apt Elev	160

VOR/DME RWY 16
NEWPORT MUNI (ONP)

T
A NA Inoperative table does not apply to MALSF Rwy 16.

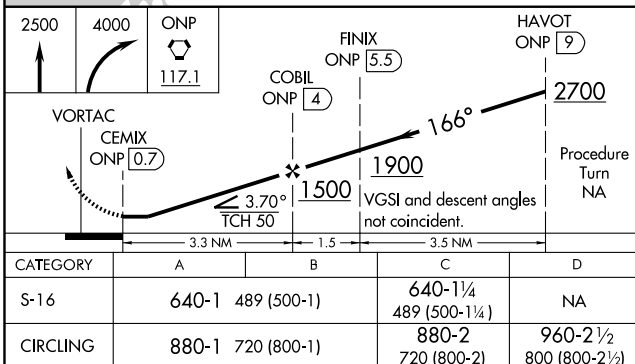
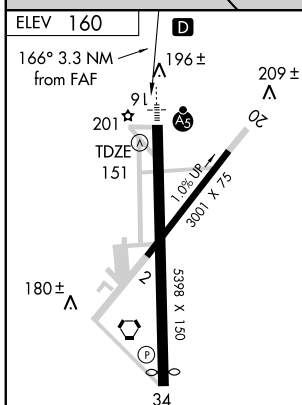
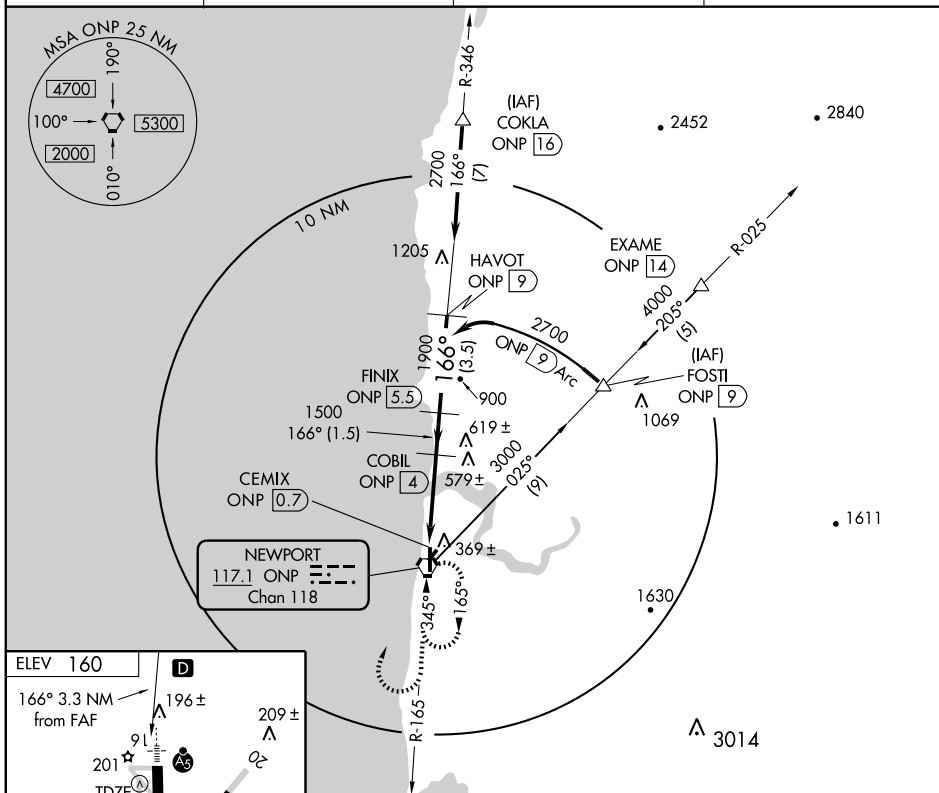
MALSR

MISSED APPROACH: Climb to 2500, then climbing right turn to 4000, direct ONP VORTAC and hold.

AWOS-3
133.9

SEATTLE CENTER
125.8 291.7

MCMINNVILLE RADIO
122.5

UNICOM
122.8 (CTAF) **L**

REIL Rwy 34 **L**
MIRL Rwy 2-20 **L**
HIRL Rwy 16-34 **L**

NW-1. 03 JUN 2010 to 01 JUL 2010

VORTAC ONP 117.1 Chan 118	APP CRS 327°	Rwy Idg TDZE Apt Elev	5098 155 160
---	------------------------	-----------------------------	---

VOR/DME RWY 34

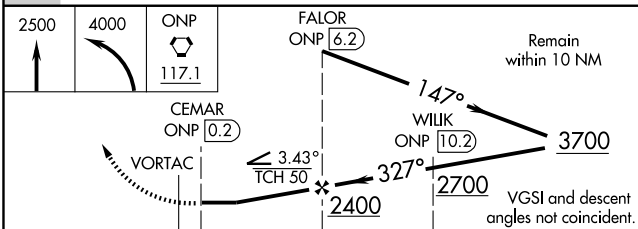
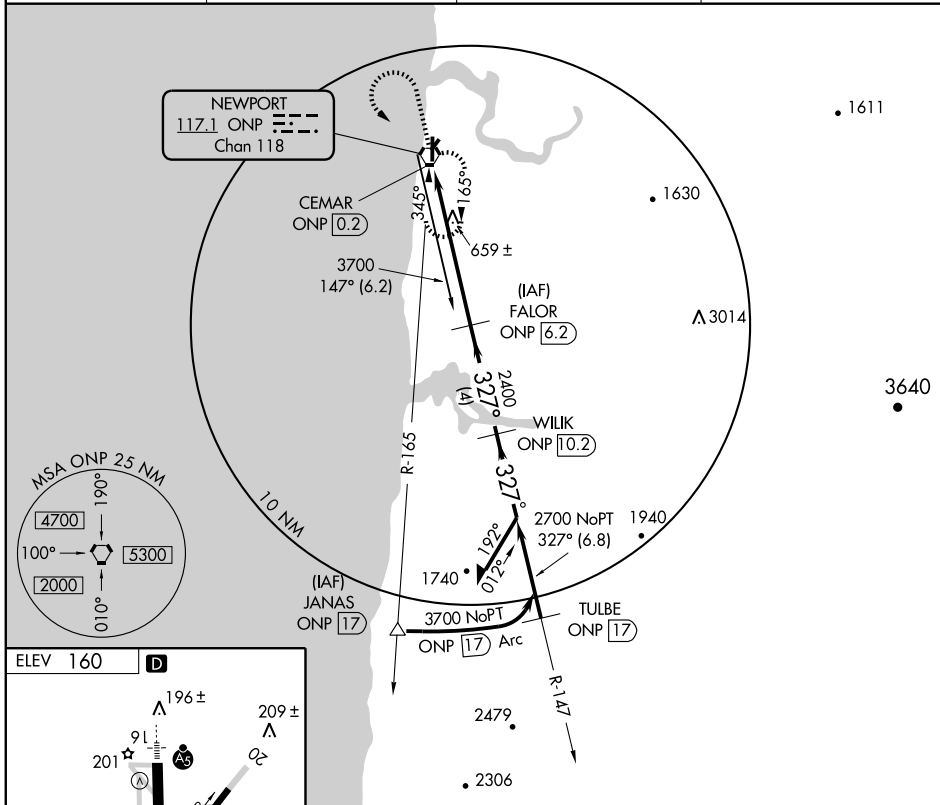
NEWPORT MUNI (ONP)



NA

MISSED APPROACH: Climb to 2500 then climbing left turn to 4000 direct ONP VORTAC and hold.

AWOS-3 133.9	SEATTLE CENTER 125.8 291.7	MCMINNVILLE RADIO 122.5	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-34	920-1 765 (800-1)	920-1¼ 765 (800-1¼)	920-2¼ 765 (800-2¼)	920-2½ 765 (800-2½)
CIRCLING	920-1 760 (800-1)	920-1¼ 760 (800-1¼)	920-2¼ 760 (800-2¼)	960-2½ 800 (800-2½)

AIRPORT DIAGRAM

NORTH BEND/SOUTHWEST OREGON RGNL (OTH)
AL-929 (FAA) NORTH BEND, OREGON

AWOS-3
135.075
NORTH BEND TOWER ★
118.45
GND CON
127.1

D

43°26'N

RWY 4-22
S106, D113, ST143, DT190
RWY 13-31
S90, D100, ST127, DT100

207

ELEV 13

ELEV 13

TWR

COMMERCIAL
RAMP

ELEV 16

GENERAL
AVIATION

US COAST
GUARD

FIELD
ELEV 17

JANUARY 2005
ANNUAL RATE OF CHANGE
0.1°W

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBCK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

43°25'N

43°24'N

124°15'W

124°14'W

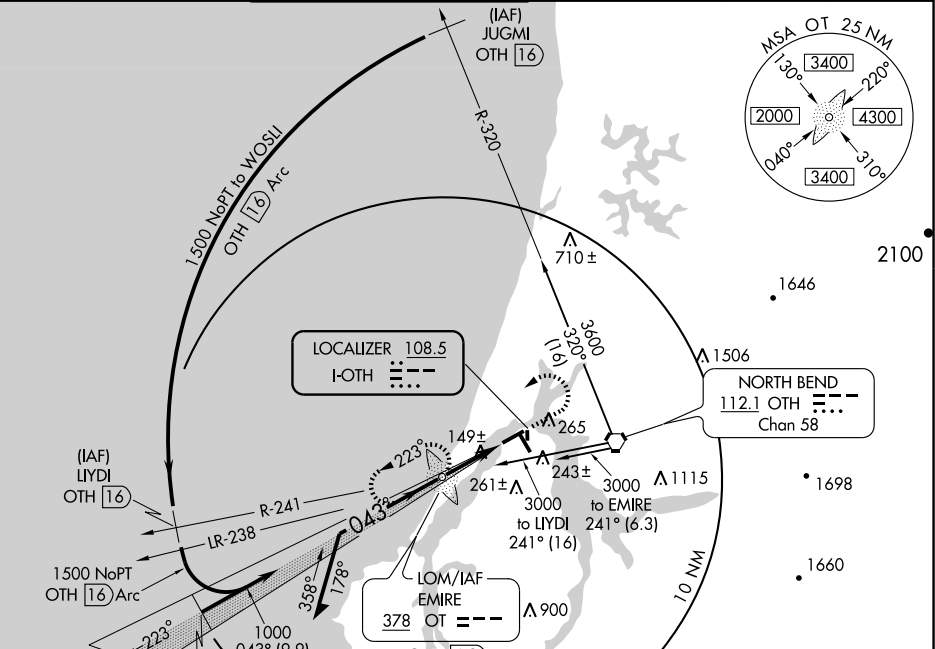
NW-1, 03 JUN 2010 to 01 JUL 2010

LOC I-OTH	APP CRS	Rwy Idg	5321
108.5	043°	TDZE	16
		Apt Elev	17

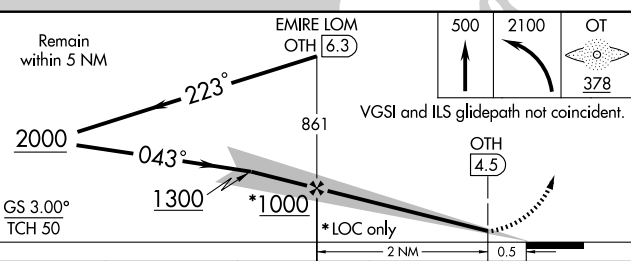
COPTER ILS or LOC RWY 4

NORTH BEND/SOUTHWEST OREGON RGNL (OTH)

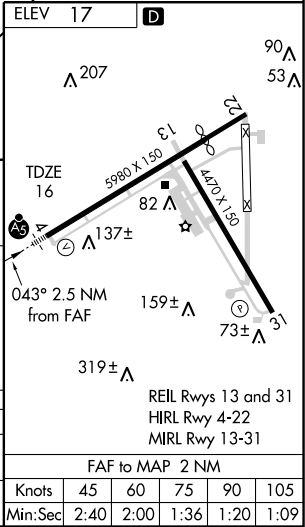
ADF required. If local altimeter setting not received, procedure NA. US Coast Guard use only.			MALSR 	MISSED APPROACH: Climb to 500, then climbing left turn to 2100 direct EMIRE LOM and hold, continue climb-in-hold to 2100.	
AWOS-3	SEATTLE CENTER	SOUTHWEST REGIONAL TOWER ★	MC MINNVILLE RADIO	GND CON	UNICOM
135.075	121.4 254.35	118.45 (CTAF) 0	122.4 255.4	127.1	122.7



ADF or DME REQUIRED

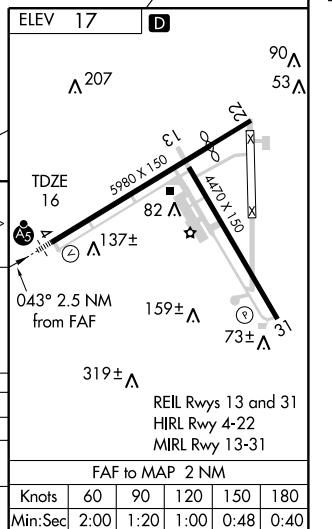
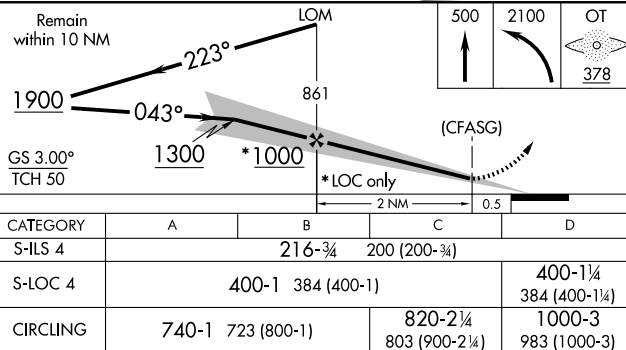
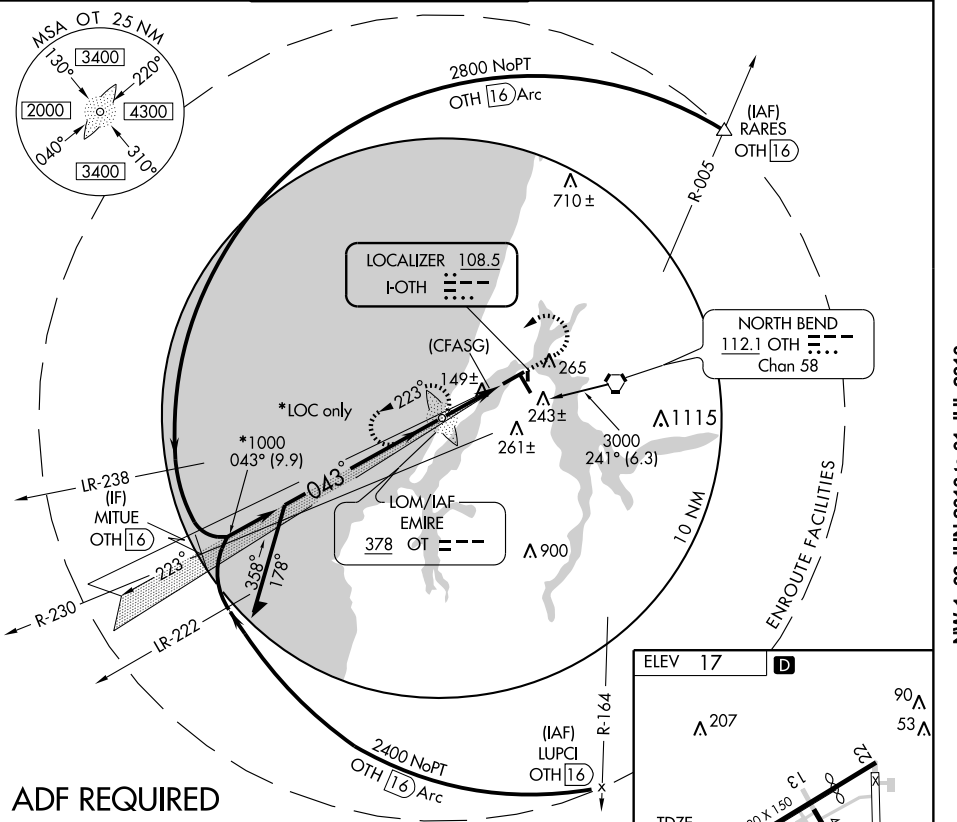


CATEGORY	COPTER	B	C	D
H-ILS 4	216-½ 200 (200-½)		NA	
H-LOC 4	400-½ 384 (400-½)		NA	



NW-1, 03 JUN 2010 to 01 JUL 2010

LOC I-OTH 108.5		APP CRS 043°		Rwy Idg 5321 TDZE 16 Apt Elev 17		ILS or LOC RWY 4 NORTH BEND/ SOUTHWEST OREGON RGNL (OTH)					
<div><div>T</div><div>A</div></div>		<div><div>MALSR</div><div><div>A5</div><div><div></div><div></div><div></div><div></div><div></div></div></div></div>		MISSED APPROACH: Climb to 500, then climbing left turn to 2100 direct EMIRE LOM and hold, continue climb-in-hold to 2100.							
AWOS-3 135.075		SEATTLE CENTER 121.4 254.35		SOUTHWEST REGIONAL TOWER ★ 118.45 (CTAF) 0		MC MINNVILLE RADIO 122.4 255.4		GND CON 127.1		UNICOM 122.7	



NW-1, 03 JUN 2010 to 01 JUL 2010

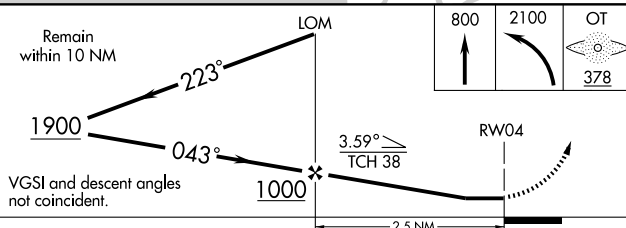
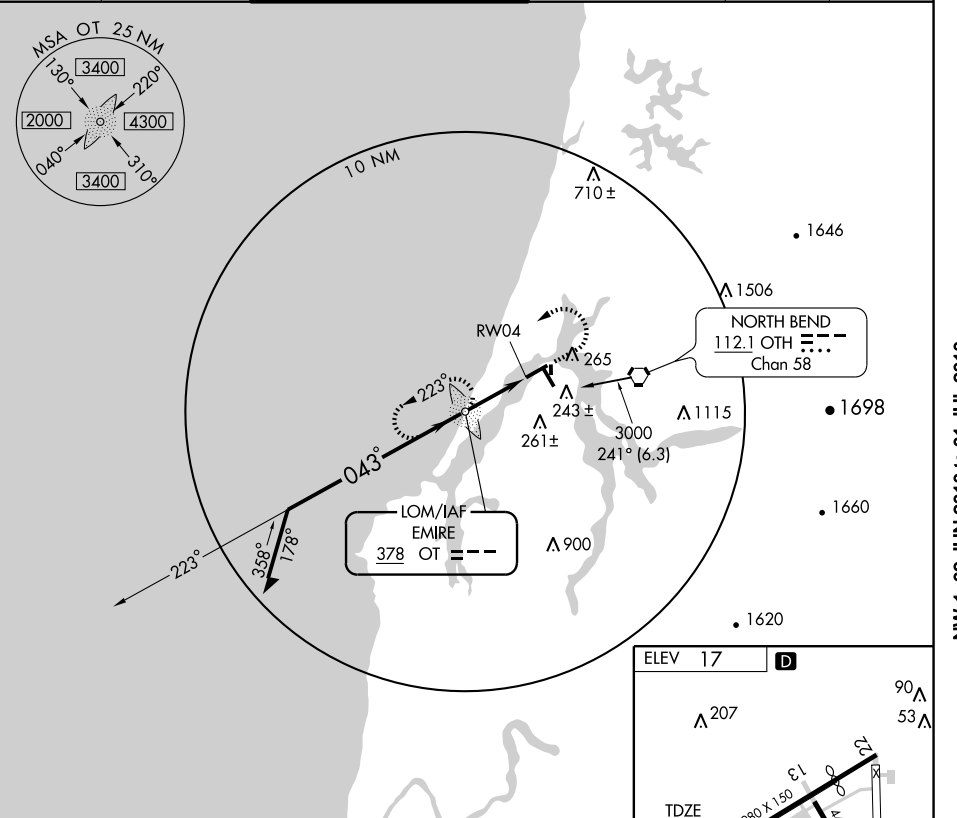
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MALSR

MISSED APPROACH: Climb to 800, then climbing left turn to 2100 direct EMIRE (OT) LOM and hold, continue climb-in-hold to 2100.

AWOS-3	SEATTLE CENTER	SOUTHWEST REGIONAL TOWER ★	MC MINNVILLE RADIO	GND CON	UNICOM
135.075	121.4 254.35	118.45 (CTAF) ❶	122.4 255.4	127.1	122.7



CATEGORY	A	B	C	D
S-4	660-1	644 (700-1)	660-1½ 644 (700-1½)	660-2 644 (700-2)
CIRCLING	740-1 723 (800-1)	740-1¼ 723 (800-1¼)	820-2¼ 803 (900-2¼)	1000-3 983 (1000-3)

ELEV 17

D

90°

53°

137°

13

82

159

319

73

31

TDZE 16

5980 X 150

4470 X 150

043° 2.5 NM from FAF

REIL Rwy 13 and 31
HIRL Rwy 4-22
MIRL Rwy 13-31

FAC TO MAP 2.5 NM

Knots

60

90

120

150

180

Min:Sec

2:30

1:40

1:15

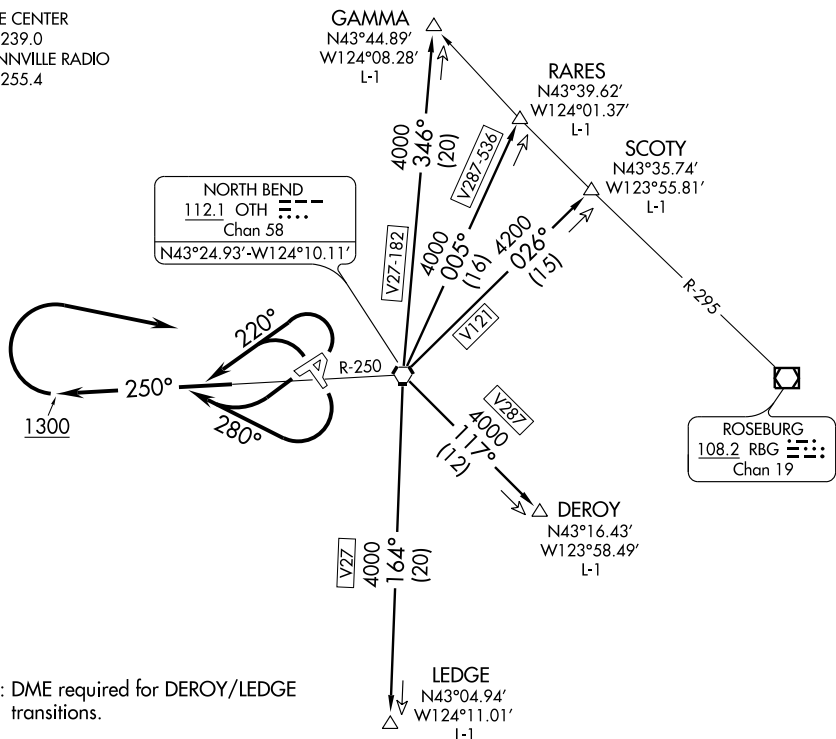
1:00

0:50

NW-1. 03 JUN 2010 to 01 JUL 2010

NORTH BEND FIVE DEPARTURE

SEATTLE CENTER
121.4 239.0
MC MINNVILLE RADIO
122.4 255.4



NOTE: DME required for DEROY/LEDGE transitions.

TAKE-OFF MINIMUMS

Rwy 4: Standard with minimum climb of 475' per NM to 1200 or 900-3 with minimum climb of 300' per NM to 900.

Rwy 13: 400-1 with minimum climb of 330' per NM to 1200.

Rwy 22: Standard.

Rwy 31: 300-1¾ or Standard with minimum climb of 280' per NM to 300.

(NOTES CONTINUED ON FOLLOWING PAGE)

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 4, 31: Climbing left turn heading 220° and OTH R-250 thence. . .

TAKE-OFF RUNWAYS 13, 22: Climbing right turn heading 280° and OTH R-250 thence. . .

. . . continue climbing via OTH R-250 to 1300 then right turn direct OTH VORTAC, thence via assigned transition.

DEROY TRANSITION (OTH5.DEROY): From over OTH VORTAC via OTH R-117 to DEROY DME.

GAMMA TRANSITION (OTH5.GAMMA): From over OTH VORTAC via OTH R-346 to GAMMA INT.

LEDGE TRANSITION (OTH5.LEDGE): From over OTH VORTAC via OTH R-164 to LEDGE DME.

RARES TRANSITION (OTH5.RARES): From over OTH VORTAC via OTH R-005 to RARES INT.

SCOTY TRANSITION (OTH5.SCOTY): From over OTH VORTAC via OTH R-026 to SCOTY INT.

TAKE-OFF OBSTACLE NOTES

Rwy 4: OL on ant. 383' from DER, 207' right of centerline, 22' AGL/35' MSL.

Ship 1000' from DER, on centerline, up to 140' MSL.

OLs on bridge beginning 1886' from DER, 621' left of centerline, up to 93' AGL/93' MSL.

Bridge beginning 4728' from DER, 580' right of centerline, 265' AGL/265' MSL.

OLs on bridge beginning 4741' from DER, 948' right of centerline, up to 268' AGL/268' MSL.

Transmission tower, 5031' from DER, 677' right of centerline, 213' AGL/216' MSL.

Trees beginning 1.2 NM from DER, 409' left of centerline, up to 150' AGL/549' MSL.

Trees beginning 1.5 NM from DER, 1396' right of centerline, up to 150' AGL/629' MSL.

Bldgs beginning 1.7 NM from DER, 776' left of centerline, up to 73' AGL/393' MSL.

Rwy 13: Bushes beginning 38' from DER, 175' left of centerline, up to 16' AGL/33' MSL.

Vehicle on road, 193' from DER, 237' left of centerline, up to 15' AGL/30' MSL.

Bush 193' from DER, 145' right of centerline, up to 20' AGL/37' MSL.

Trees beginning 346' from DER, 17' right of centerline, up to 150' AGL/349' MSL.

Bldgs beginning 504' from DER, 243' right of centerline, up to 86' AGL/106' MSL.

Trees beginning 628' from DER, 6' left of centerline, up to 150' AGL/298' MSL.

Ant. on bldg 712' from DER, 554' right of centerline, up to 51' AGL/68' MSL.

Poles beginning 880' from DER, 13' right of centerline, up to 136' AGL/236' MSL.

Spire 3467' from DER, 1122' left of centerline, 55' AGL/243' MSL.

Pole 1 NM from DER, 159' left of centerline, up to 121' AGL/221' MSL.

Rwy 22: Ship 4050' from DER, on centerline, up to 140' MSL.

Rwy 31: Ship 1000' from DER, on centerline, up to 140' MSL.

Trees beginning 5037' from DER, 15' left of centerline, up to 92' AGL/232' MSL.

Trees beginning 5985' from DER, 1419' right of centerline, up to 108' AGL/188' MSL.

VORTAC OTH 112.1 Chan 58	APP CRS 254°	Rwy Idg TDZE Apt Elev	N/A N/A 17
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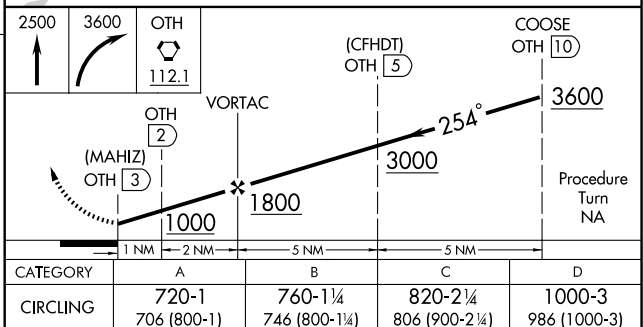
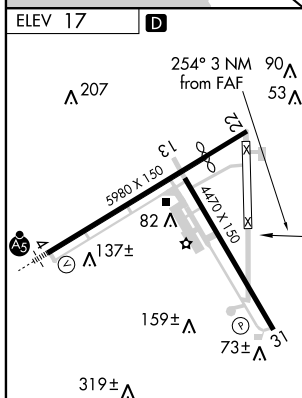
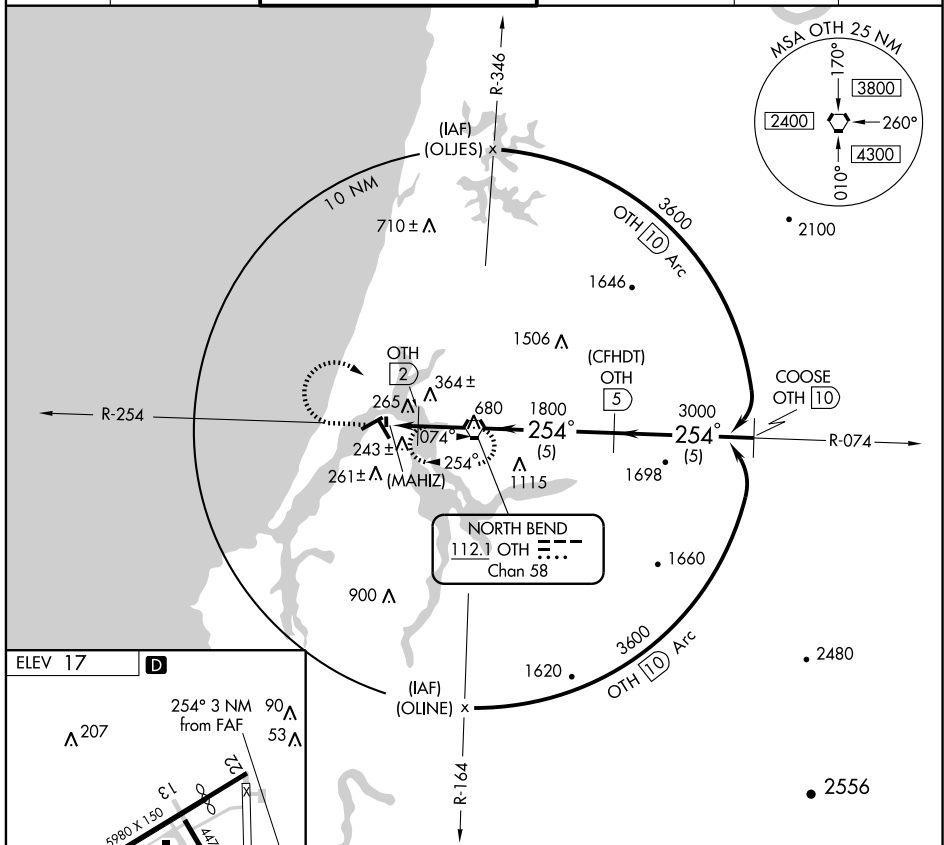
VOR/DME or GPS-B

NORTH BEND/ SOUTHWEST OREGON RGNL (OTH)



MISSED APPROACH: Climb to 2500, then climbing right turn to 3600 direct OTH VORTAC and hold.

AWOS-3 135.075	SEATTLE CENTER 121.4 254.35	SOUTHWEST REGIONAL TOWER ★ 118.45 (CTAF) 0	MC MINNVILLE RADIO 122.4 255.4	GND CON 127.1	UNICOM 122.7
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AL-929 (FAA)

VORTAC OTH 112.1 Chan 58	APP CRS 070°	Rwy Idg 5321 TDZE 12 Apt Elev 17
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VOR/DME RWY 4

NORTH BEND/SOUTHWEST OREGON RGNL (OTH)

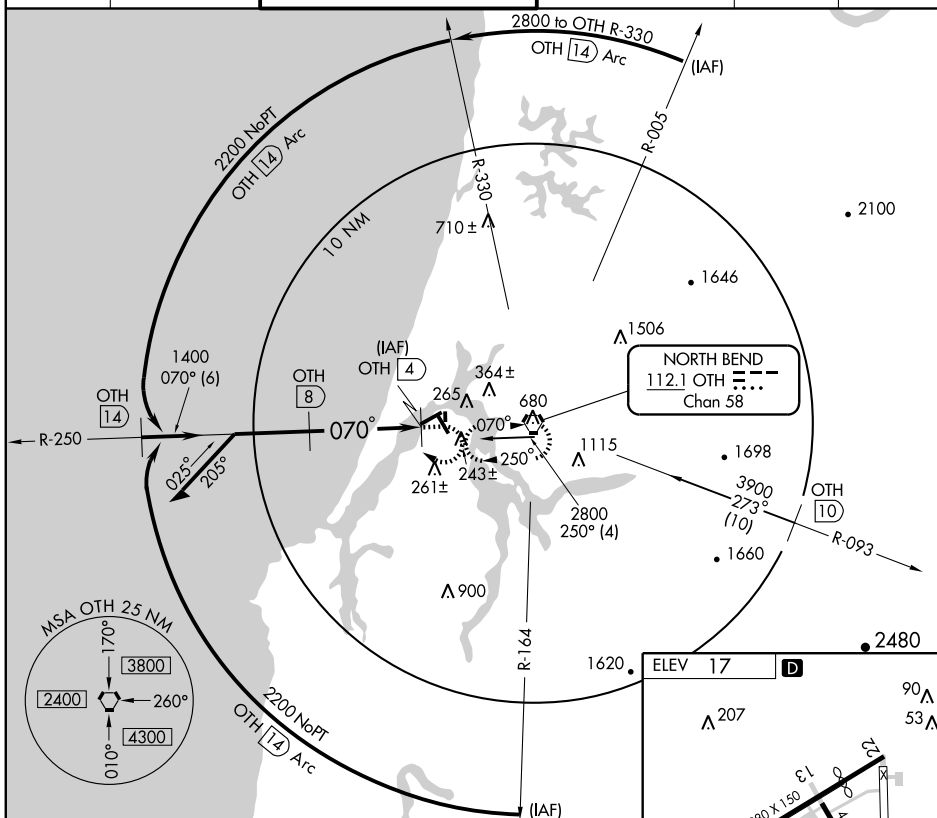


MALSR

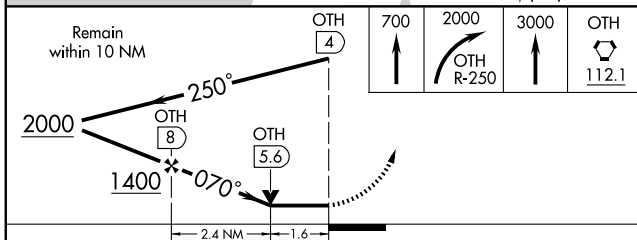


MISSED APPROACH: Climb to 700, then climbing right turn to 2000 via OTH R-250; then climb to 3000 direct OTH VORTAC and hold.

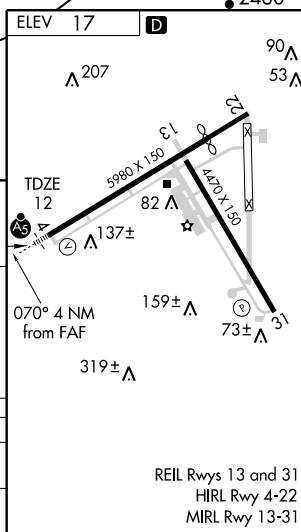
AWOS-3 135.075	SEATTLE CENTER 121.4 254.35	SOUTHWEST REGIONAL TOWER ★ 118.45 (CTAF) 0	MC MINNVILLE RADIO 122.4 255.4	GND CON 127.1	UNICOM 122.7
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NW-1. 03 JUN 2010 to 01 JUL 2010



CATEGORY	A	B	C	D
S-4	540-1 528 (600-1)		540-1½ 528 (600-1½)	540-1¾ 528 (600-1¾)
CIRCLING	720-1 706 (800-1)	760-1¼ 746 (800-1¼)	820-2¼ 806 (900-2¼)	1000-3 986 (1000-3)

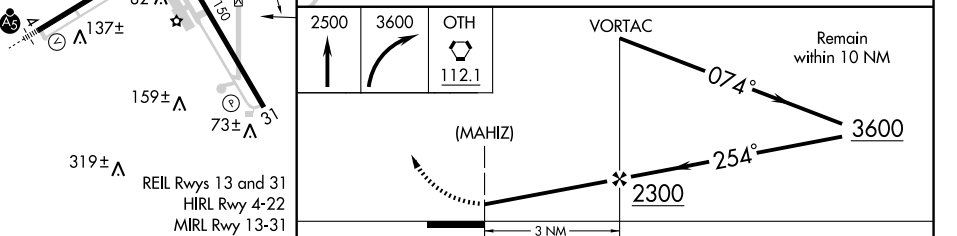
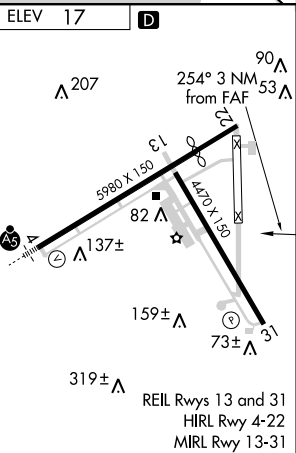
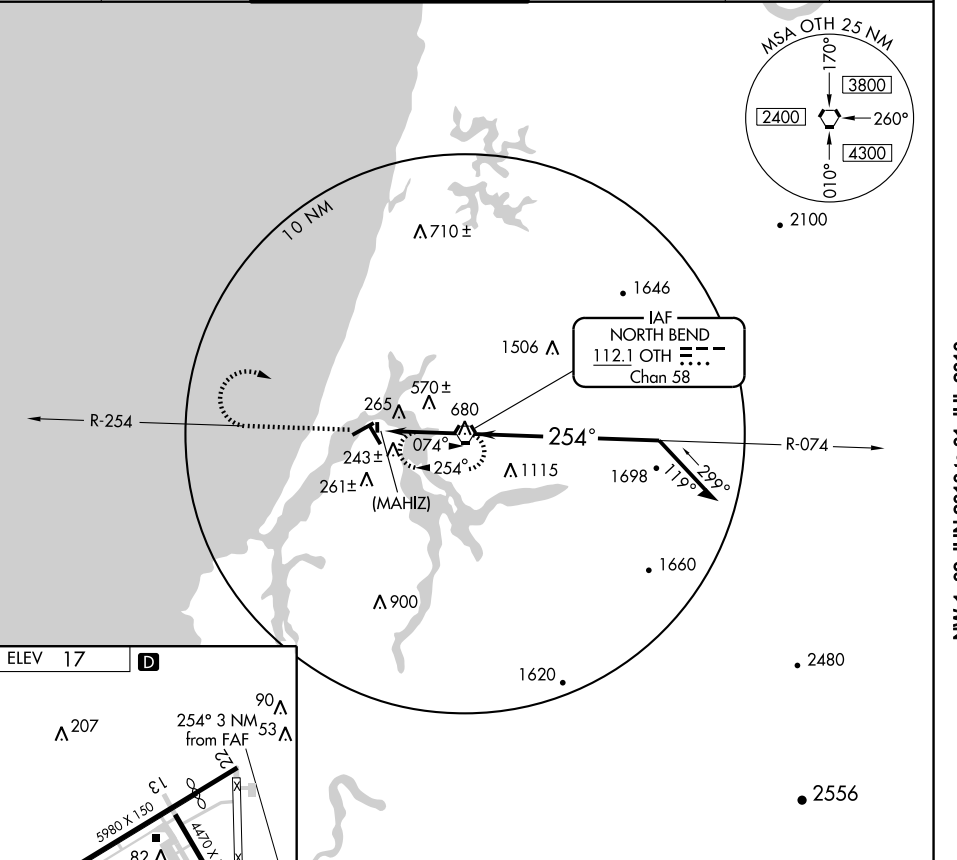


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MISSED APPROACH: Climb to 2500, then climbing right turn to 3600 direct OTH VORTAC and hold.

AWOS-3	SEATTLE CENTER	SOUTHWEST REGIONAL TOWER ★	MC MINNVILLE RADIO	GND CON	UNICOM
135.075	121.4 254.35	118.45 (CTAF) ①	122.4 255.4	127.1	122.7



FAF to MAP 3 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	1100-1¼ 1086 (1100-1¼)	1100-1½ 1086 (1100-1½)	1100-3	1086 (1100-3)
Min:Sec	3:00	2:00	1:30	1:12	1:00					

NDB ONO
305

APP CRS
335°

Rwy Idg	5011
TDZE	2193
Apt Elev	2193

NDB RWY 32
ONTARIO MUNI (ONO)

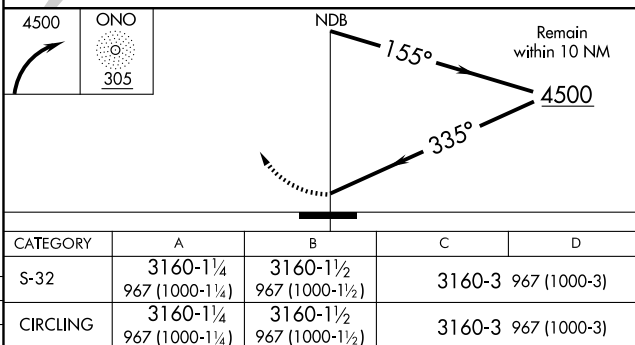
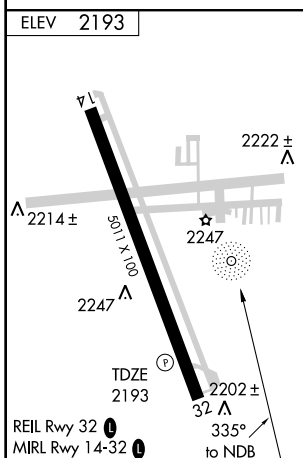
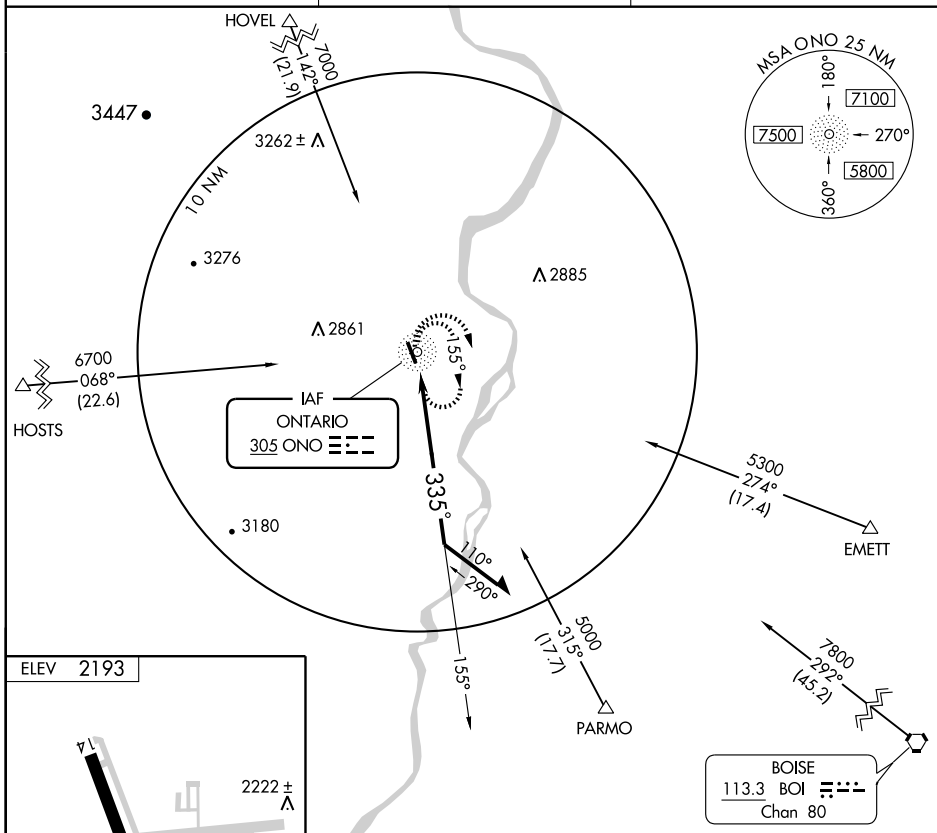


Visibility reduction by helicopters NA.
When local altimeter setting not received, use Caldwell
altimeter setting and increase MDA 100 feet.

MISSED APPROACH: Climbing right turn to 4500 in ONO NDB holding pattern.

ASOS
135.275

SALT LAKE CENTER
128.05 387.15

UNICOM
122.8 (CTAF) **L**

WAAS CH 78207 W14A	APP CRS 142°	Rwy Idg 5011 TDZE 2193 Apt Elev 2193
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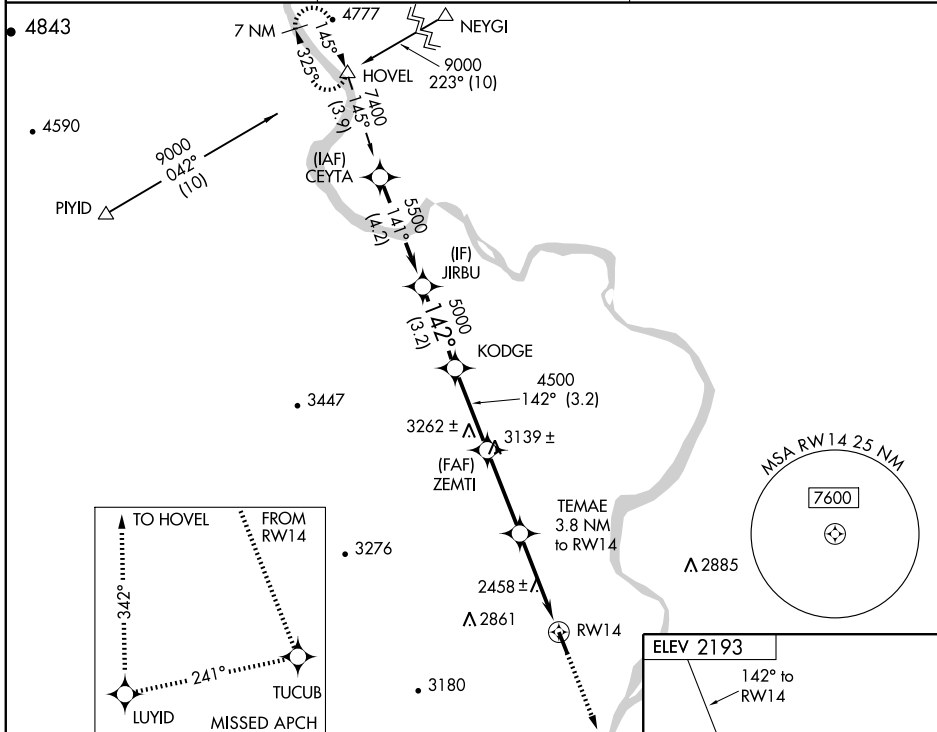
RNAV (GPS) RWY 14

ONTARIO MUNI (ONO)

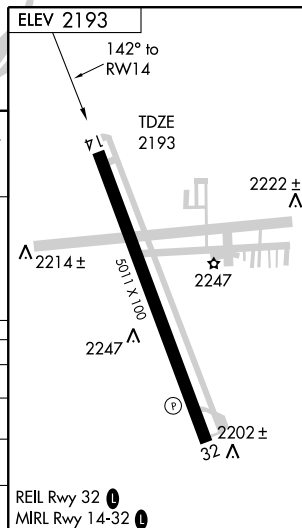
- ▼** Baro-VNAV NA when using **Caldwell** altimeter setting. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 45°C (113°F). DME/DME RNP -0.3 NA.
- ▲** Visibility reduction by helicopters NA. When local altimeter setting not received, use **Caldwell** altimeter setting and increase DA/MDA 100 feet, and increase LPV visibility ¼ mile all Cats, LNAV/VNAV visibility ½ mile all Cats, LNAV Cat C and D ¼ mile, Circling Cat C ¼ mile.

MISSED APPROACH: Climb to 9000 direct TUCUB and right turn via 241° track to LUYID and right turn via 342° track to HOVEL and hold.

ASOS 135,275	SALT LAKE CENTER 128.05 387.15	UNICOM 122.8 (CTAF) 0
------------------------	--	--



Procedure Turn NA		JIRBU	9000 ↑	TUCUB ✦	241° ↷	LUYID ✦	342° ↶	HOVEL △
5500		KODGE	ZEMTI		TEMAE 3.8 NM to RW14	*LNAV only		
GS 3.00° TCH 40		142°	5000	4500	3420*	RW14		
		3.2 NM	3.2 NM	3.2 NM	3.8 NM			
CATEGORY	A		B		C	D		
LPV DA			2744-2		551 (600-2)			
LNAV/ VNAV			2781-2		588 (600-2)			
LNAV MDA	2720-1	527 (600-1)			2720-1½ 527 (600-1½)	2720-1¾ 527 (600-1¾)		
CIRCLING	2720-1 527 (600-1)	2760-1 567 (600-1)		2760-1½ 567 (600-1½)		2760-2 567 (600-2)		



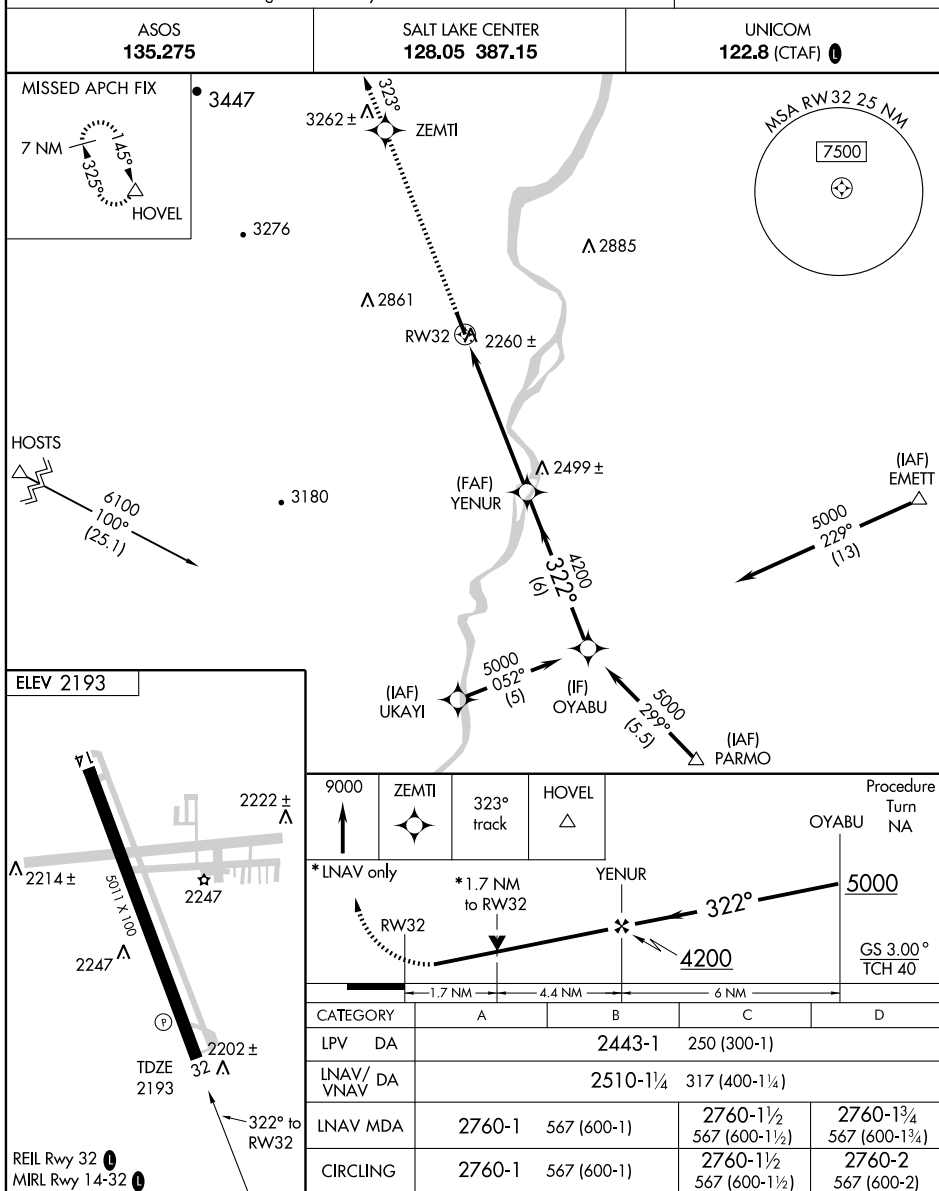
WAAS CH 87007 W32A	APP CRS 322°	Rwy Idg TDZE Apt Elev	5011 2193 2193
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RNAV (GPS) RWY 32

ONTARIO MUNI (ON0)

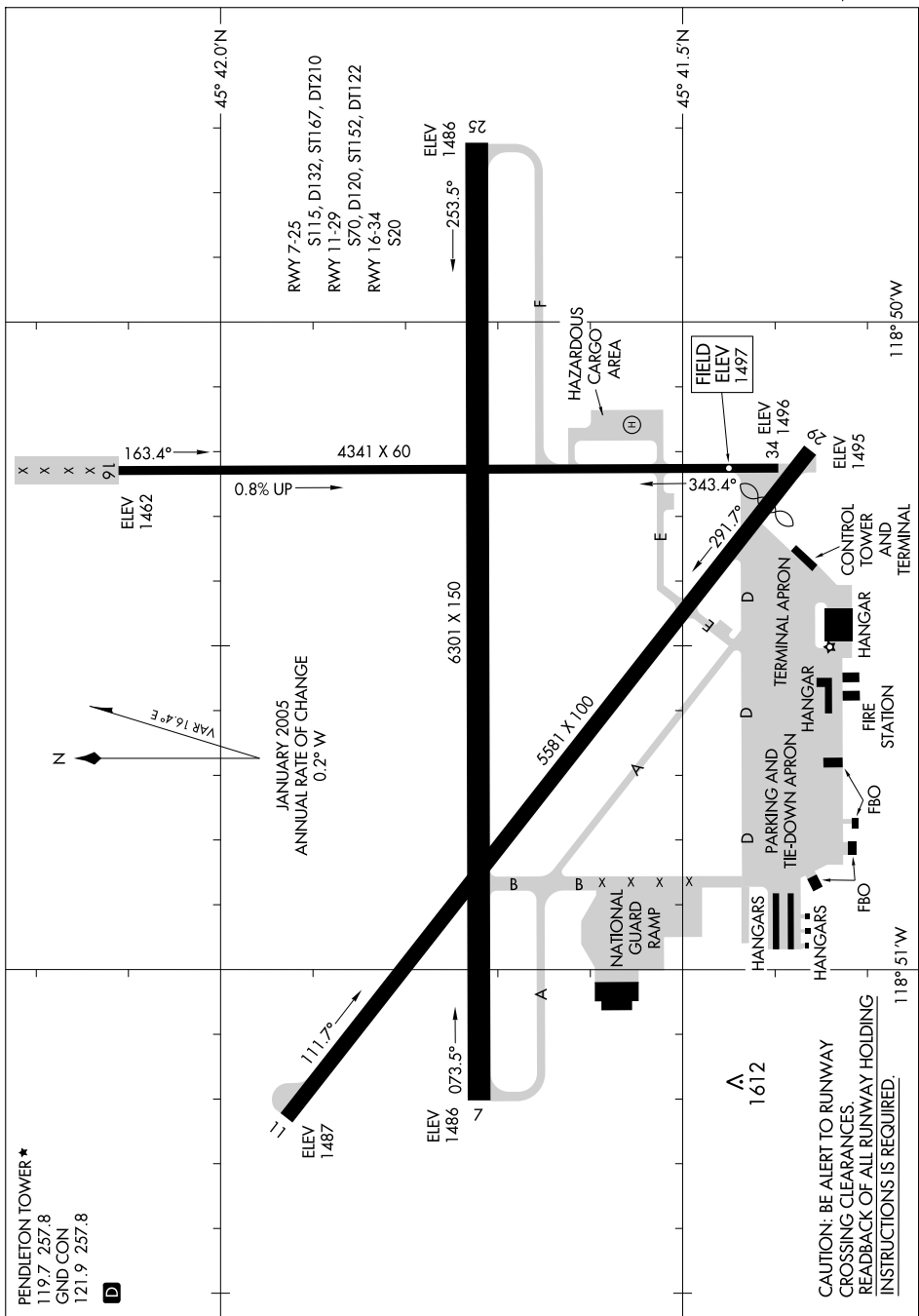
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F). Baro-VNAV and VDP NA when using Caldwell altimeter setting.
⚠ DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.
 When local altimeter setting not received, use Caldwell altimeter setting and increase DA/MDA 100 feet, and increase LPV and LNAV/VNAV visibility ¼ mile all Cats, LNAV Cat C and D and Circling Cat C visibility ¼ mile.

MISSED APPROACH: Climb to 9000 direct ZEMTI and via 323° track to HOVEL and hold, continue climb-in-hold to 9000.



AIRPORT DIAGRAM

PENDLETON / EASTERN OREGON RGNL (PDT)
AL-316 (FAA)
PENDLETON, OREGON



NW-1.03 JUN 2010 to 01 JUL 2010

ILS or LOC/DME RWY 25

PENDLETON/ EASTERN OREGON RGNL AT PENDLETON (PDT)

LOC I-PDT	APP CRS	Rwy Idg	6301
110.3	254°	TDZE	1487
		Apt Elev	1497

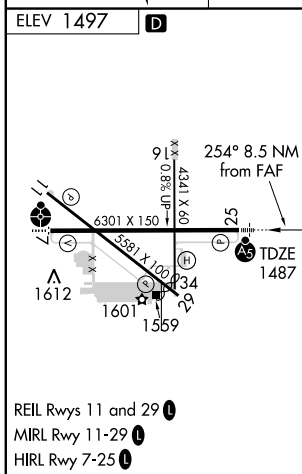
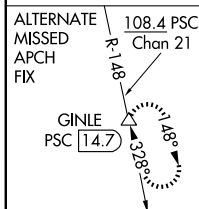
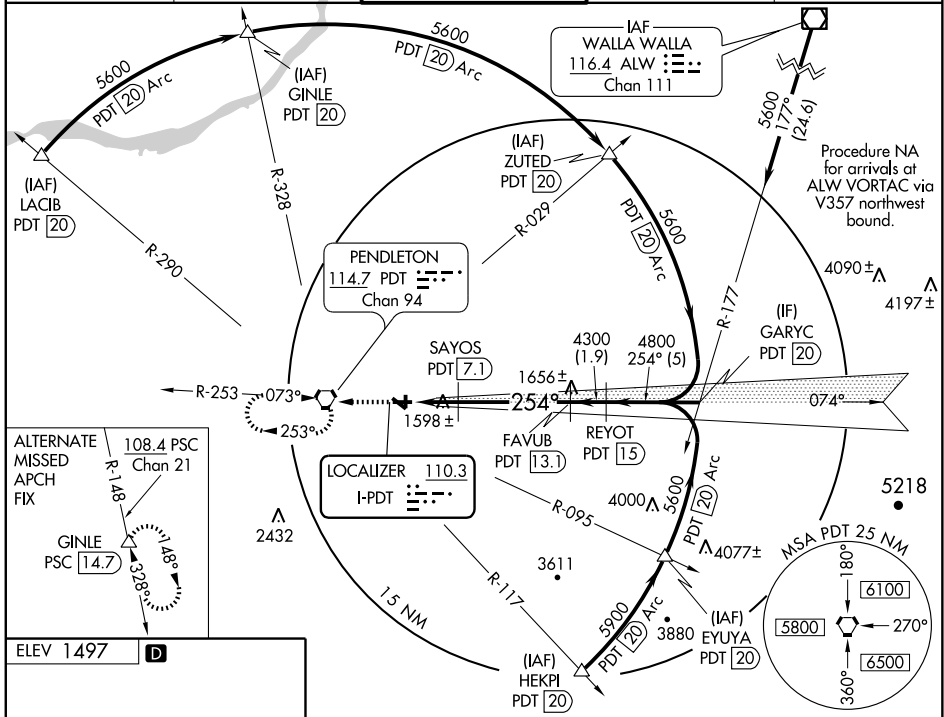
- ▼** DME from PDT VORTAC. Simultaneous reception of I-PDT and PDT VORTAC DME required.
- ▲** When local altimeter setting not received, use Walla Walla altimeter setting and increase all DA/MDA 120 feet, and S-LOC 25 Cat C/D visibility ¼ mile. For inoperative MALS when using Walla Walla altimeter setting increase S-ILS 25 visibility all Cats to 1 mile.
- **** RVR 1800 authorized with the use of FD or AP or HUD to DA, NA when using Walla Walla altimeter setting.

MALS



MISSED APPROACH: Climb to 4000 direct PDT VORTAC and hold, continue climb-in-hold to 4000.

ASOS	CHINOOK APP CON *	PENDLETON TOWER *	GND CON	UNICOM
118.325	133.15 379.15	119.7 (CTAF) 0 257.8	121.9 257.8	122.95



4000	PDT	VGSI and ILS glidepath not coincident.	FAVUB	REYOT	GARYC
114.7	114.7		PDT [13.1]	PDT [15]	PDT [20]
* LOC only	SAYOS		4300	254°	5600
	PDT [7.1]		PDT [4.6]	4800	
	2320*		4300		
	2.5	6 NM	1.9 NM	5 NM	
CATEGORY	A	B	C	D	
S-ILS 25	** 1687/24 200 (200-½)				
S-LOC 25	1860/24 373 (400-½)			1860/40 373 (400-¾)	
CIRCLING	1920-1 423 (500-1)	1960-1 463 (500-1)	1960-1½ 463 (500-1½)	2060-2 563 (600-2)	

WAAS CH 73012 W07A	APP CRS 074°	Rwy Idg TDZE Apt Elev	6301 1486 1497
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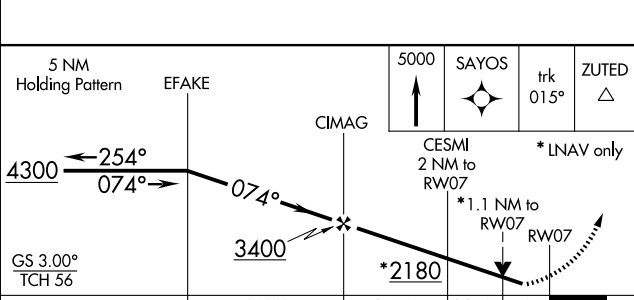
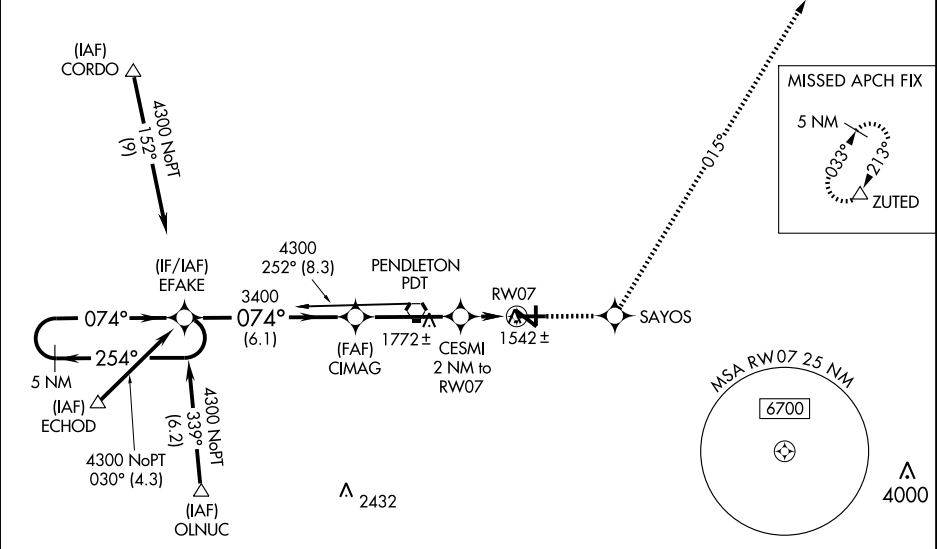
RNAV (GPS) RWY 7
PENDLETON/ EASTERN OREGON RGNL AT PENDLETON (PDT)

⚠ Inoperative table does not apply to LNAV/VNAV all Cats.
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
VDP and Baro-VNAV NA when using Walla Walla altimeter setting. When local altimeter setting not received, use Walla Walla altimeter setting and increase all DA/MDA 120 feet, and all visibilities ¾ mile. Inoperative table does not apply.

ODALS

MISSED APPROACH: Climb to 5000 direct SAYOS and via track 015° to ZUTED and hold.

ASOS 118.325	CHINOOK APP CON* 133.15 379.15	PENDLETON TOWER* 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	1736-¾ 250 (300-¾)			
LNAV/VNAV DA	1834-1¼ 348 (400-1¼)			
LNAV MDA	1880-¾ 394 (400-¾)			1880-1¼ 394 (400-1¼)
CIRCLING	1920-1 423 (500-1)	1960-1 463 (500-1)	1960-1½ 463 (500-1½)	2060-2 563 (600-2)

ELEV 1497 **D**

REIL Rwy 11 and 29 **L**
MIRL Rwy 11-29 **L**
HIRL Rwy 7-25 **L**

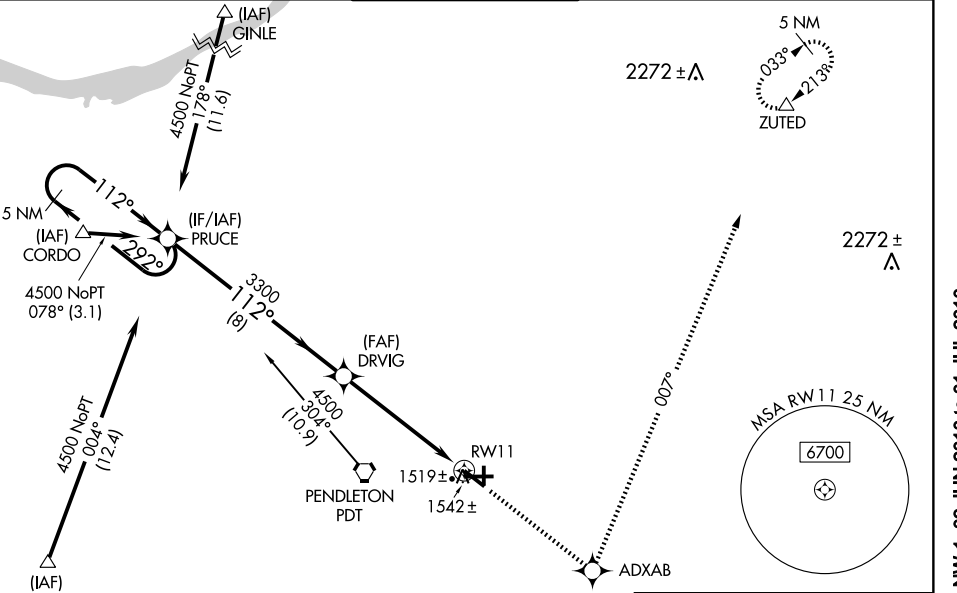
WAAS CH 82712 W11A	APP CRS 112°	Rwy Idg TDZE Apt Elev	5581 1487 1497
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▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA.

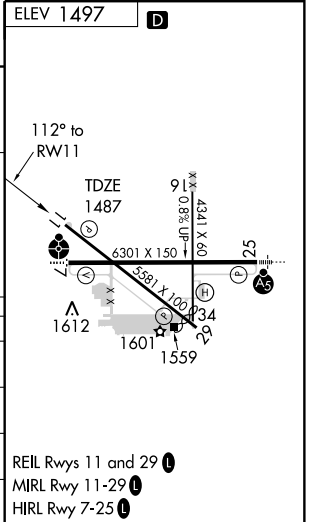
▲ When local altimeter setting not received, use Walla Walla altimeter setting: increase all DA/MDA 120 feet and visibility LPV all Cats ¼ mile, LNAV/VNAV all Cats ½ mile, LNAV Cats C and D ¼ mile and Circling Cat D ¼ mile. VDP and Baro-VNAV NA when using Walla Walla altimeter setting.

MISSED APPROACH: Climb to 5000 direct ADXAB and left turn via track 007° to ZUTED and hold.

ASOS 118.325	CHINOOK APP CON* 133.15 379.15	PENDLETON TOWER* 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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5 NM Holding Pattern				
PRUCE				
5000				
ADXAB				
ZUTED				
*1 NM to RWY 11				
*LNAV only				
RWY 11				
8 NM				
4.5 NM				
1 NM				
CATEGORY	A	B	C	D
LPV DA	1737-1 250 (300-1)			
LNAV/VNAV DA	1850-1¼ 363 (400-1¼)			
LNAV MDA	1860-1 373 (400-1)			1860-1¼ 373 (400-1¼)
CIRCLING	1920-1 423 (500-1)	1960-1 463 (500-1)	1960-1½ 463 (500-1½)	2060-2 563 (600-2)



NW-1, 03 JUN 2010 to 01 JUL 2010

WAAS CH 78412 W25A	APP CRS 254°	Rwy Idg TDZE Apt Elev	6301 1487 1497
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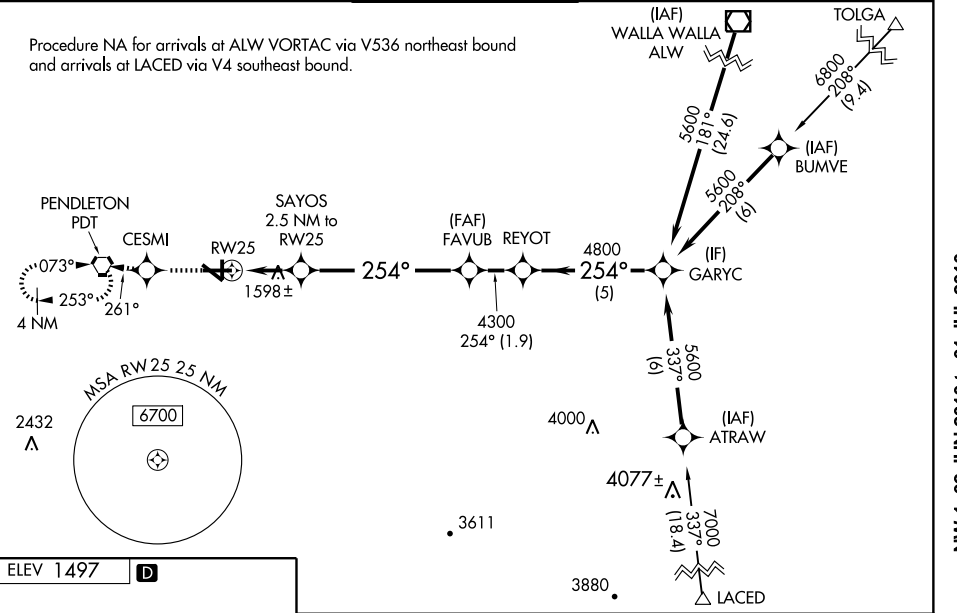
▼ For inoperative MALS, increase LNAV/VNAV Cat D visibility to RVR 5000, and LNAV Cat D to RVR 6000.

▲ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Walla Walla altimeter setting and increase all DA/MDA 120 feet, and all visibilities 1 mile; inoperative table does not apply. VDP and Baro-VNAV NA when using Walla Walla altimeter setting.

MALS

MISSED APPROACH: Climb to 4000 direct CESMI and via track 261° to PDT VORTAC and hold, continue climb-in-hold to 4000.

ASOS 118.325	CHINOOK APP CON* 133.15 379.15	PENDLETON TOWER* 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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ELEV 1497 **D**

REIL Rwy 11 and 29 **1**

MIRL Rwy 11-29 **1**

HIRL Rwy 7-25 **1**

4000 ↑	CESMI 	trk 261°	PDT 	VGSI and RNAV glidepath not coincident.			
*LNAV only				SAYOS 2.5 NM to RW25	FAVUB	REYOT	GARYC

NW-1, 03 JUN 2010 to 01 JUL 2010

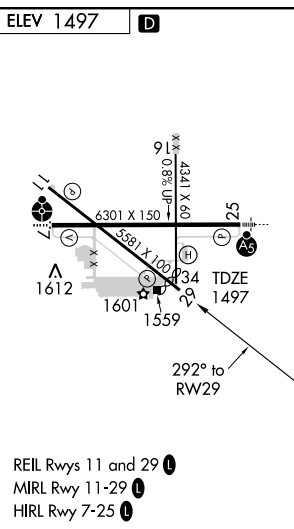
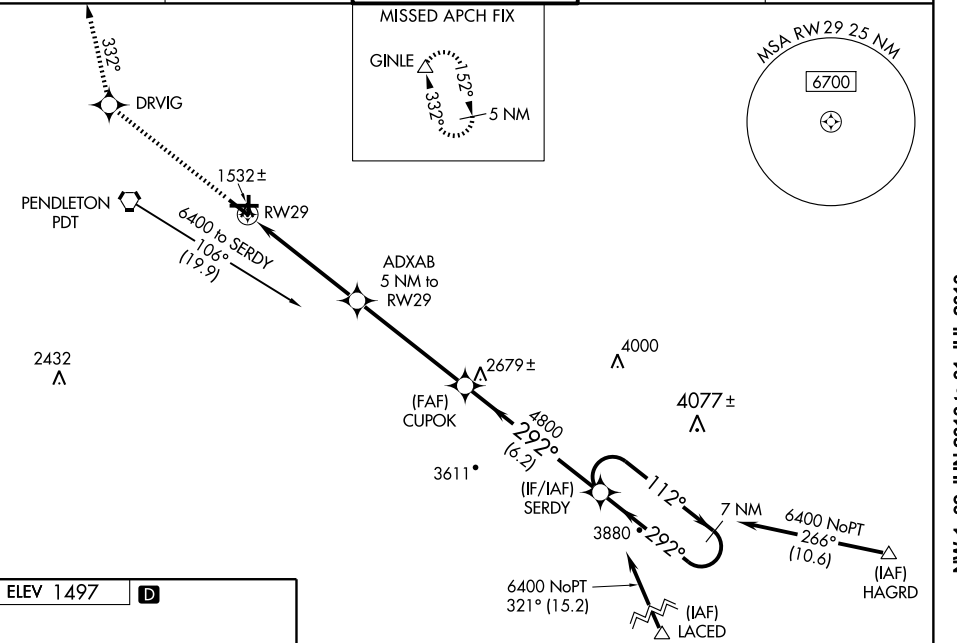
⚠ Inoperative table does not apply.

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA.

When local altimeter setting not received, use Walla Walla altimeter setting: increase all DA/MDA 120 feet and visibility LPV all Cats ¼ mile, LNAV/VNAV all Cats ½ mile, LNAV Cats C and D ¼ mile and Circling Cat D ¼ mile. VDP and Baro-VNAV NA when using Walla Walla altimeter setting.

MISSED APPROACH: Climb to 5000 direct DRVIG and via track 332° to GINLE and hold.

ASOS 118.325	CHINOOK APP CON * 133.15 379.15	PENDLETON TOWER * 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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5000	DRVIG	trk 332°	GINLE	VGSI and RNAV glidepath not coincident.	7 NM Holding Pattern
*LNAV only	ADXB 5 NM to RW29	*0.9 NM to RW29	CUPOK	SERDY	112° → 6400
			3160*	4800	GS 3.00° TCH 55
	0.9	4.1 NM	4.9 NM	6.2 NM	
CATEGORY	A	B	C	D	
LPV DA		1747-1	250 (300-1)		
LNAV/VNAV DA		1801-1	304 (400-1)		
LNAV MDA		1860-1	363 (400-1)		1860-1¼ 363 (400-1¼)
CIRCLING	1920-1 423 (500-1)	1960-1 463 (500-1)	1960-1½ 463 (500-1½)	2060-2 563 (600-2)	

REIL Rwy 11 and 29
MIRL Rwy 11-29
HIRL Rwy 7-25

VORTAC PDT 114.7 Chan 94	APP CRS 073°	Rwy Idg TDZE Apt Elev	6301 1486 1497
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VOR RWY 7

PENDLETON/ EASTERN OREGON RGNL AT PENDLETON (PDT)

▼ Inoperative table does not apply to S-7 Cat C.
Visibility reduction by helicopters NA.

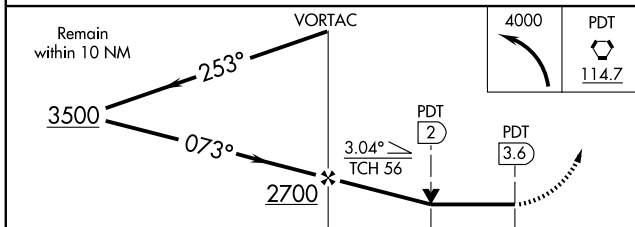
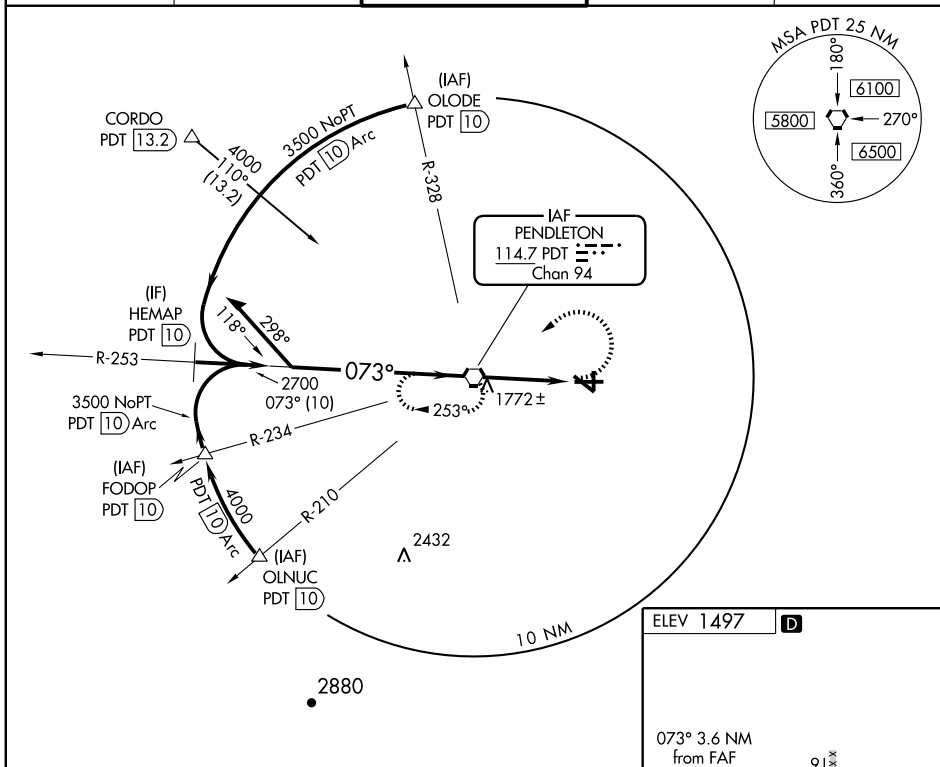
▲ When local altimeter setting not received, use Walla Walla altimeter setting and increase all MDA 120 feet, and all visibilities ½ mile.
Inoperative table does not apply when using Walla Walla altimeter setting.
VDP NA when using Walla Walla altimeter setting.

ODALS



MISSED APPROACH: Climbing left turn to 4000 direct PDT VORTAC and hold, continue climb-in-hold to 4000.

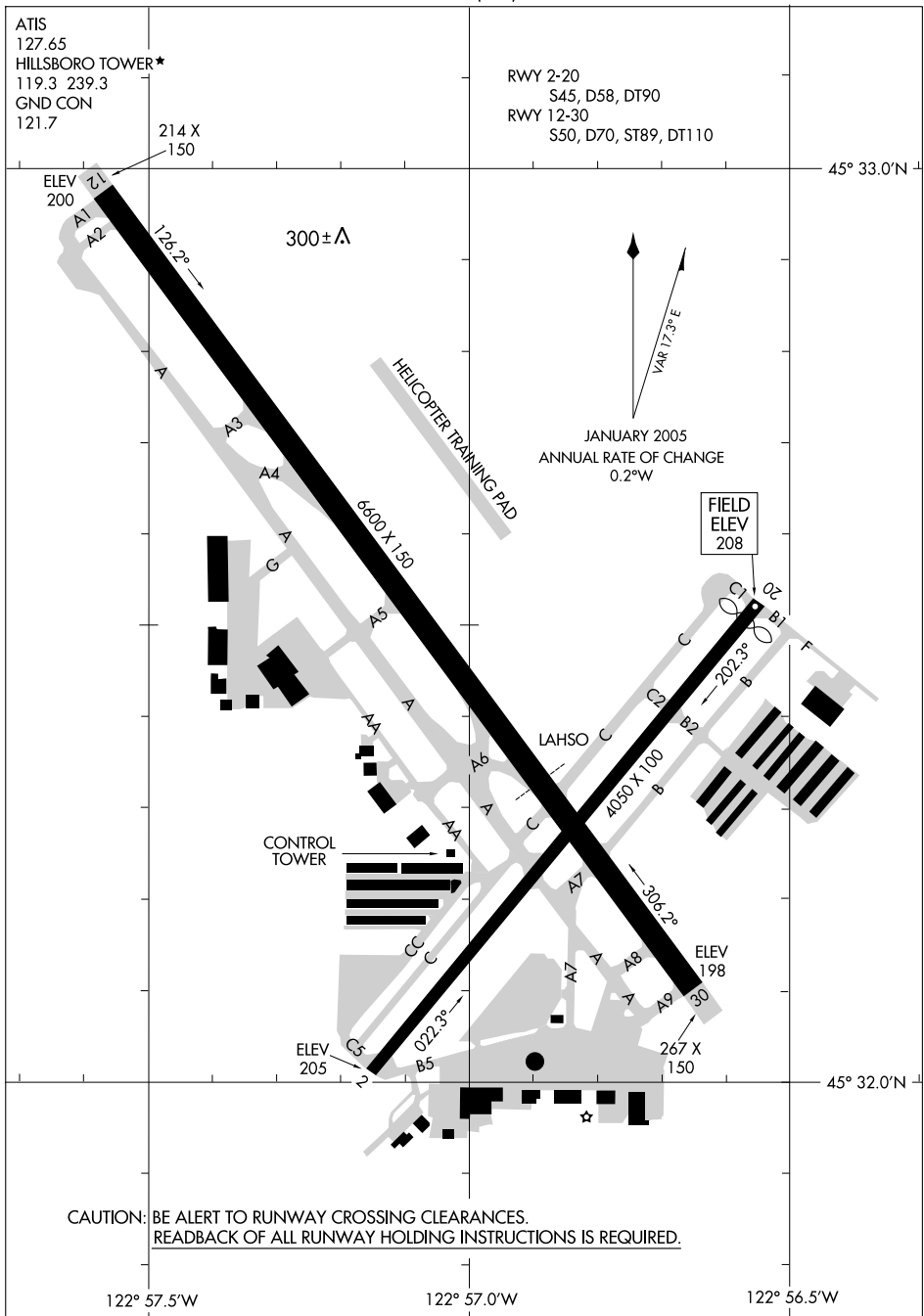
ASOS 118.325	CHINOOK APP CON* 133.15 379.15	PENDLETON TOWER* 119.7 (CTAF) 0 257.8	GND CON 121.9 257.8	UNICOM 122.95
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					2 NM		1.6 NM				REIL Rwy 11 and 29	
CATEGORY	A		B		C		D					MIRL Rwy 11-29
S-7	2040-¾		554 (600-¾)		2040-1½		2040-1¾					HIRL Rwy 7-25
					554 (600-1½)		554 (600-1¾)					
CIRCLING	2040-1		543 (600-1)		2040-1½		2060-2					
					543 (600-1½)		563 (600-2)					
FAF to MAP 3.6 NM												
Knots 60 90 120 150 180												
Min:Sec 3:36 2:24 1:48 1:26 1:12												

AIRPORT DIAGRAM

AL-5063 (FAA)

 PORTLAND-HILLSBORO (HIO)
 PORTLAND, OREGON


CANBY EIGHT DEPARTURE

SL-5063 (FAA)

PORTLAND-HILLSBORO (HIO)
PORTLAND, OREGON

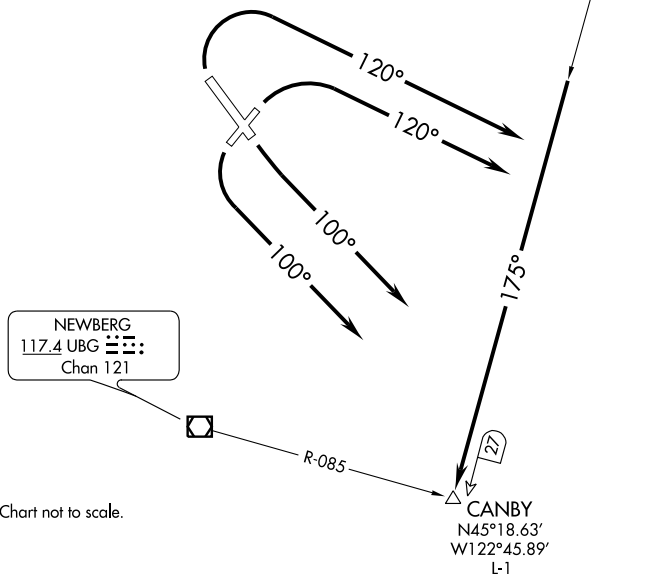
ATIS 127.65
GND CON
121.7
HILLSBORO TOWER ★
119.3 (CTAF) 239.3
PORTLAND DEP CON
126.0 284.6

TAKE-OFF MINIMUMS

Rwy 12, 20: Standard.

Rwy 2: Standard with minimum climb of 307' per NM to 2700.

Rwy 30: Standard with minimum climb of 280' per NM to 2700.



NOTE: Chart not to scale.

TAKE-OFF OBSTACLE NOTES

Rwy 2: Vehicle on road 247' from DER, 1' right of centerline, up to 15' AGL/220' MSL.

Terrain left and right of centerline beginning at DER up to 302' MSL.

Rwy 12: Terrain left and right of centerline beginning at DER up to 296' MSL.

Trees 1836' from DER, 8' left centerline, up to 125' AGL/331' MSL.

Rwy 20: Terrain left and right of centerline beginning at DER up to 306' MSL.

Trees and hangars beginning 60' from DER, 32' left of centerline, up to 93' AGL/311' MSL.

Trees, antennas and buildings beginning 564' from DER, 411' right of centerline, up to 74' AGL/280' MSL.

Rwy 30: Terrain left and right of centerline beginning at DER up to 292' MSL.

Trees beginning 1664' from DER, 626' right of centerline up to 194' AGL/363' MSL.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 2, 30: Climbing right turn heading 120°, thenceTAKE-OFF RUNWAYS 12, 20: Climbing left turn heading 100°, thence

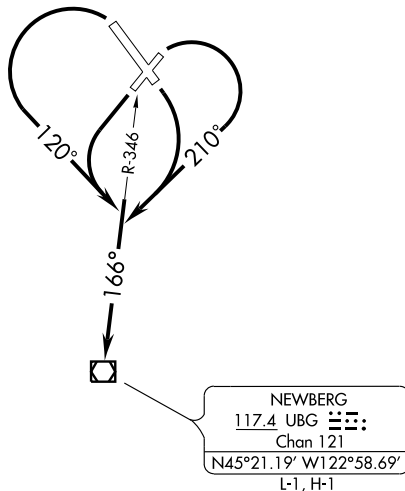
. . . . Intercept and proceed via BTG R-175 to CANBY INT. Thence via assigned route.

FARMINGTON FIVE DEPARTURE

SL-5063 (FAA)

PORTLAND-HILLSBORO (HIO)
PORTLAND, OREGON

ATIS 127.65
GND CON
121.7
HILLSBORO TOWER ★
119.3 (CTAF) 239.3
PORTLAND DEP CON
126.0 284.6

TAKE-OFF MINIMUMS

Rwy 12, 20: Standard.

Rwy 2: Standard with minimum climb of 307' per NM to 2700.

Rwy 30: Standard with minimum climb of 235' per NM to 2700.

TAKE-OFF OBSTACLE NOTES

Rwy 2: Vehicle on road 247' from DER, 1' right of centerline, up to 15' AGL/220' MSL.

Terrain left and right of centerline beginning at DER up to 302' MSL.

Rwy 12: Terrain left and right of centerline beginning at DER up to 296' MSL.

Trees 1836' from DER, 8' left centerline, up to 125' AGL/331' MSL.

Rwy 20: Terrain left and right of centerline beginning at DER up to 306' MSL.

Trees and hangars beginning 60' from DER, 32' left of centerline, up to 93' AGL/311' MSL.

Trees, antennas and buildings beginning 564' from DER, 411' right of centerline, up to 74' AGL/280' MSL.

Rwy 30: Terrain left and right of centerline beginning at DER up to 292' MSL.

Trees beginning 1664' from DER, 626' right of centerline up to 194' AGL/363' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 2, 12: Turn right heading 210°, thence

TAKE-OFF RUNWAYS 20, 30: Turn left heading 120°, thence

. . . . Intercept and proceed via UBG R-346 to UBG VOR/DME. Thence via (assigned route).

HELNS FOUR ARRIVAL

ST-330 (FAA)

PORTLAND, OREGON

PORTLAND APP CON

124.35 299.2

PORTLAND INTL ATIS

128.35 269.9

PORTLAND-HILLSBORO ATIS

127.65

SEATTLE

116.8 SEA

Chan 115

N47°26.12'-W122°18.58'

L-1, H-1

10000
+9700
161°
(71)HELNS
N46°15.42'
W122°18.58'10000
180°
(111)7000
(22)

BATTLE GROUND

116.6 BTG

Chan 113

N45°44.87'-W122°35.49'

KRATR

N46° 05.39' - W122° 24.17'

NOTE: Maintain the last assigned altitude. Upon receipt of "Descend via the HELNS4": . . .

PROP/TURBOPROP: Cross at and maintain 10,000'.

TURBOJET: Cross at and maintain 12,000' at 300 KIAS or less.

PORTLAND
INTLPORTLAND-
HILLSBORO

PORTLAND-TROUTDALE

AURORA
STATE

NOTE: Chart not to scale.

NOTE: DME and RADAR required.

SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence....

.... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence....

LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course.

LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.

LOC I-HIO	APP CRS	Rwy Idg	6600
110.7	128°	TDZE	203
		Apt Elev	208

ILS or LOC RWY 12 PORTLAND-HILLSBORO (HIO)

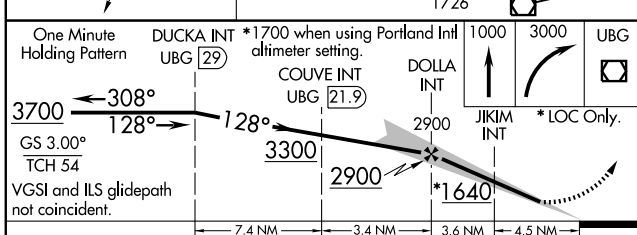
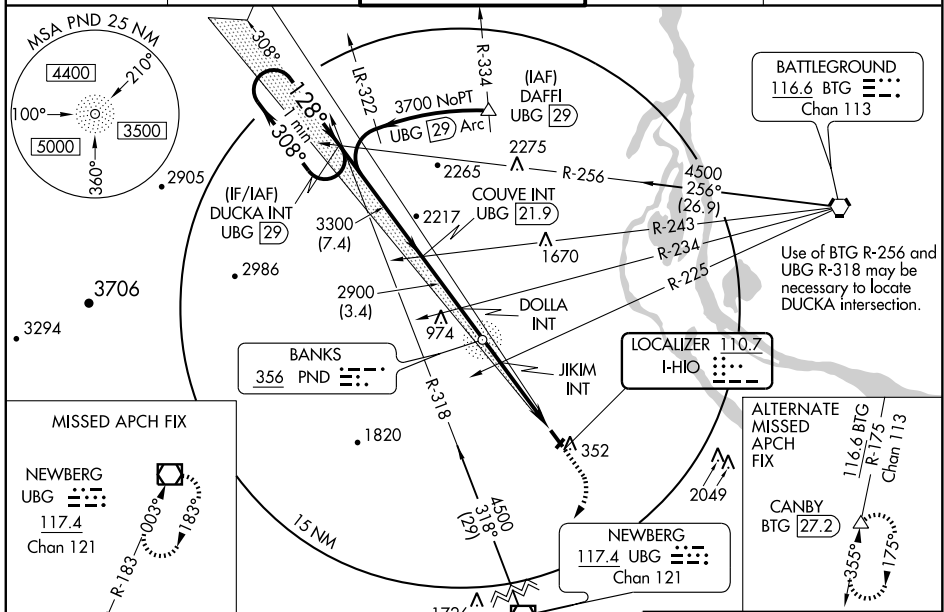
⚠ Inoperative table does not apply to S-LOC 12 Cats A and B. For inoperative MALSR when using Portland Intl altimeter setting, increase S-ILS 12 all Cats visibility to RVR 5000, inoperative table does not apply to S-LOC 12 Cats A and B. When local altimeter setting not received, use Portland Intl altimeter setting and increase all DA and MDA 60 feet, increase JIKIM fix minimums S-LOC 12 Cats C and D visibility ¼ mile.

MALSR

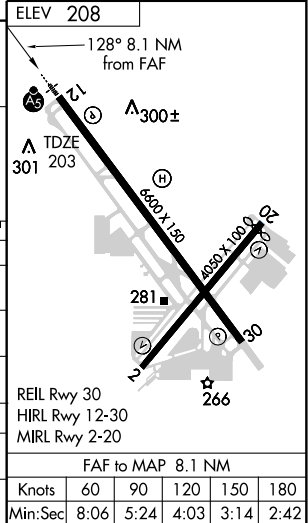


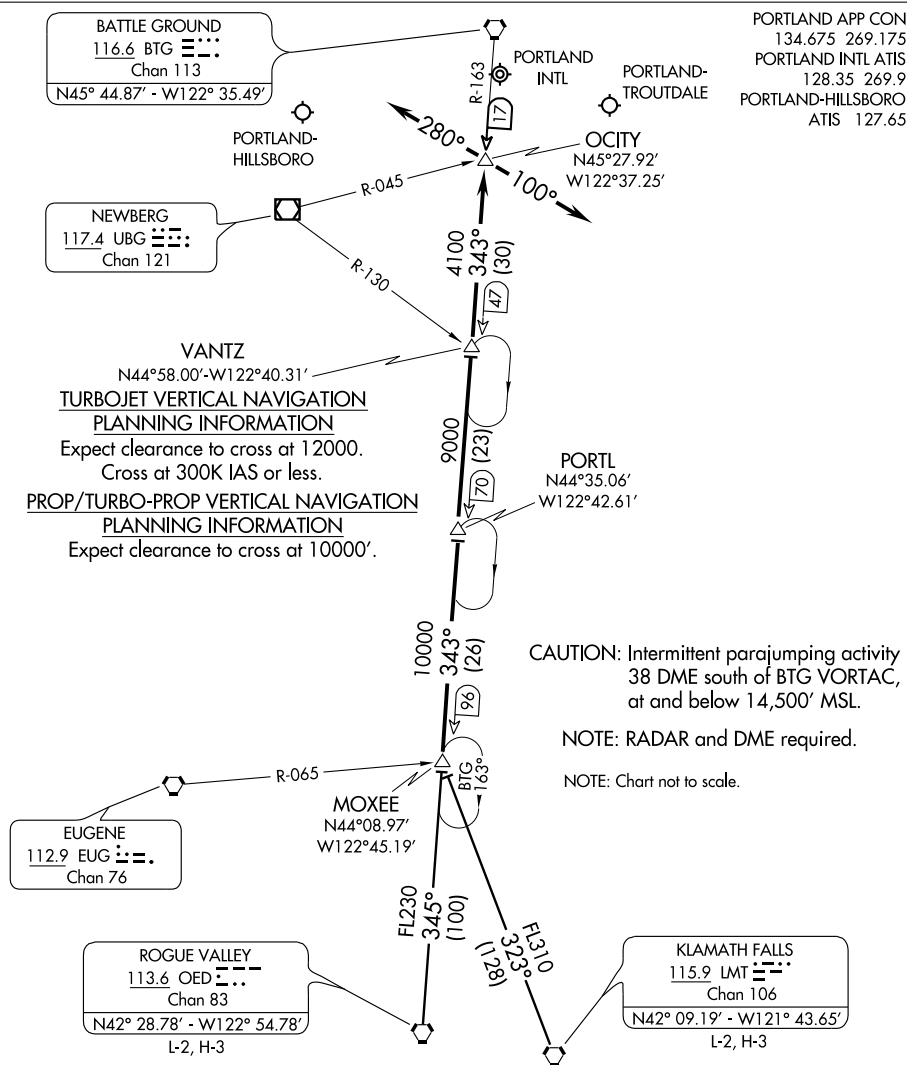
MISSED APPROACH: Climb to 1000 then climbing right turn to 3000 direct UBG VOR/DME and hold.

ATIS 127.65	PORTLAND APP CON 126.0 284.6	HILLSBORO TOWER* 119.3 (CTAF) 0 239.3	GND CON 121.7	UNICOM 122.95
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CATEGORY	A	B	C	D
S-ILS 12	403/24 200 (200-½)			
S-LOC 12	1640/60 1437 (1500-1¼)	1640-1½ 1437 (1500-1½)	1640-2½	1437 (1500-2½)
CIRCLING	1640-1¼ 1432 (1500-1¼)	1640-1½ 1432 (1500-1½)	1640-3	1432 (1500-3)
JIKIM FIX MINIMUMS (DUAL VOR RECEIVERS REQUIRED)				
S-LOC 12	680/24 477 (500-½)	680/40 477 (500-¾)	680/50 477 (500-1)	
CIRCLING	680-1 472 (500-1)	680-1½ 472 (500-1½)	760-2 552 (600-2)	





KLAMATH FALLS TRANSITION (LMT.MOXEE6): From over LMT VORTAC via LMT R-323 to MOXEE INT. Thence . . .

ROGUE VALLEY TRANSITION (OED.MOXEE6): From over OED VORTAC via OED R-345 to MOXEE INT. Thence . . .

. . . From over MOXEE INT via BTG R-163 to OCITY INT. Thence via:

Landing East - Depart OCITY INT heading 280° for vectors to final approach course.

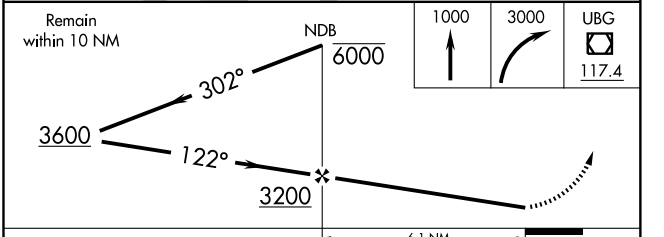
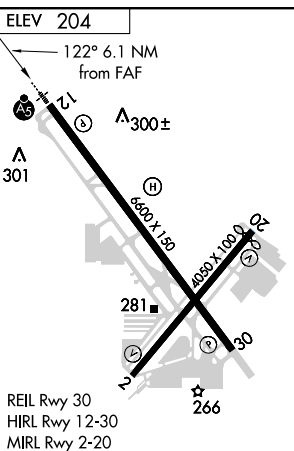
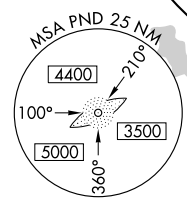
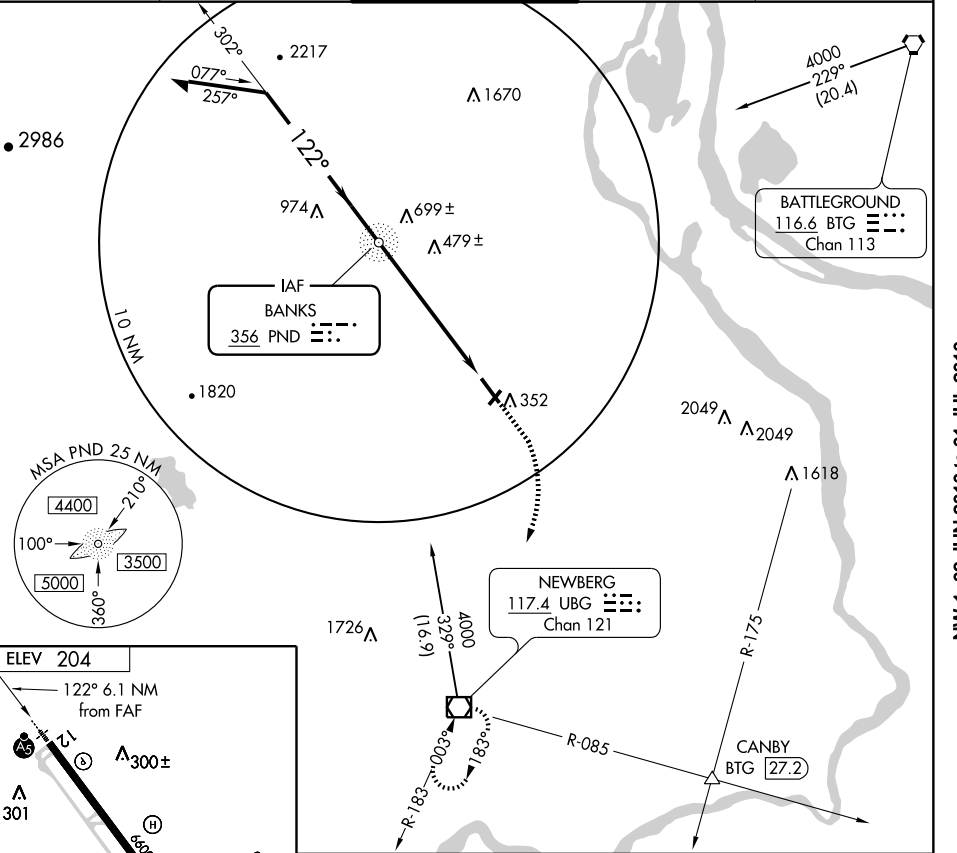
Landing West - Depart OCITY INT heading 100° for vectors to final approach course.

LOST COMMUNICATIONS: After OCITY INT, proceed direct BTG VORTAC.

▽

MISSED APPROACH: Climb to 1000, then climbing right turn to 3000 direct UBG VOR/DME and hold.

ATIS 127.65	PORTLAND APP CON 126.0 284.6	HILLSBORO TOWER ★ 119.3 (CTAF) 239.3	GND CON 121.7	UNICOM 122.95
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FAF to MAP 6.1 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	900-1	696 (700-1)	900-2	960-2½
Min:Sec	6:06	4:04	3:03	2:26	2:02				696 (700-2)	756 (800-2½)

WAAS CH 69502 W12A	APP CRS 127°	Rwy Idg TDZE Apt Elev	6600 203 208
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RNAV (GPS) RWY 12

PORTLAND-HILLSBORO (HIO)

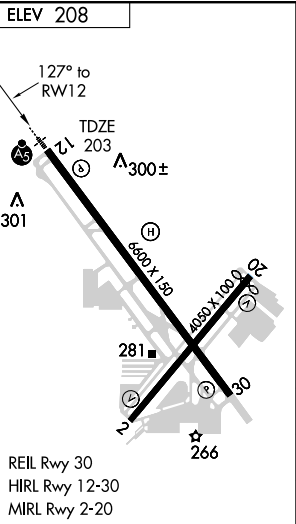
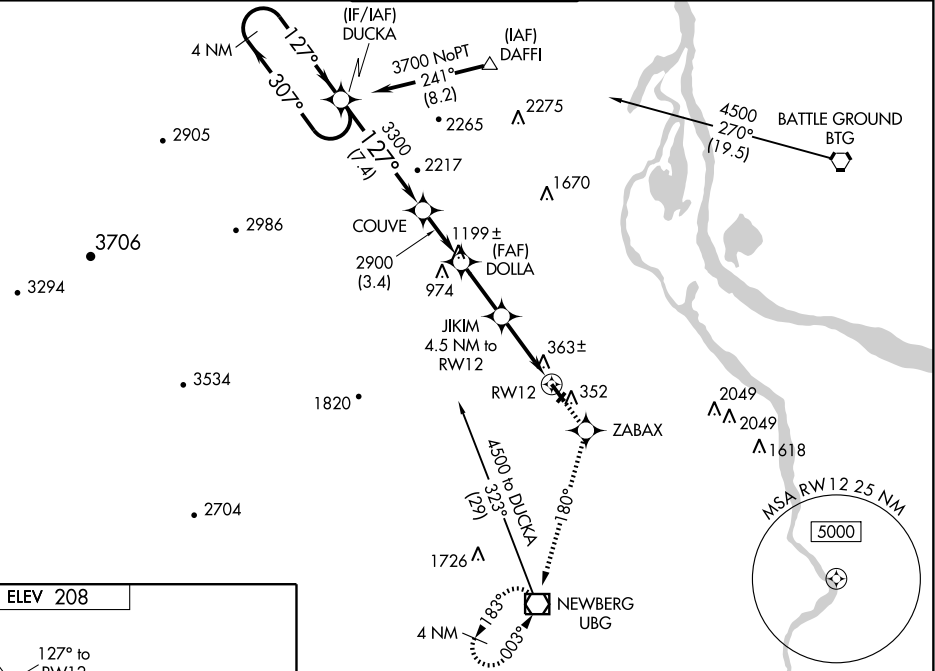
⚠

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Portland Intl altimeter setting and increase all DA and MDA 60 feet, increase LNAV/VNAV all Cats and LNAV Cat C and D visibility ¼ mile. For inoperative MALSR when using Portland Intl altimeter setting, increase LPV all Cats visibility to RVR 5000, LNAV/VNAV all Cats visibility and LNAV Cat D visibility to RVR 6000. VDP and Baro-VNAV NA when using Portland Intl altimeter setting.

MALSR

MISSED APPROACH: Climb to 3000 direct ZABAX and on track 180° to UBG VOR/DME and hold.

ATIS 127.65	PORTLAND APP CON 126.0 284.6	HILLSBORO TOWER* 119.3 (CTAF) 0 239.3	GND CON 121.7	UNICOM 122.95
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VGSI and RNAV glidepath not coincident.				
4 NM Holding Pattern				
DUCKA COUVE				
3700 ← 307° → 127° → 3300				
GS 3.00° TCH 54				
7.4 NM 3.4 NM 3.6 NM 3.1 NM 1.4				
CATEGORY	A	B	C	D
LPV DA		403/24	200 (200-½)	
LNAV/VNAV DA		650/50	447 (500-1)	
LNAV MDA	680/24	477 (500-½)	680/40 477 (500-¾)	680/50 477 (500-1)
CIRCLING	680-1	472 (500-1)	680-1½ 472 (500-1½)	760-2 552 (600-2)

NW-1. 03 JUN 2010 to 01 JUL 2010

WAAS CH 69417 W30A	APP CRS 308°	Rwy Idg TDZE Apt Elev	6600 204 208
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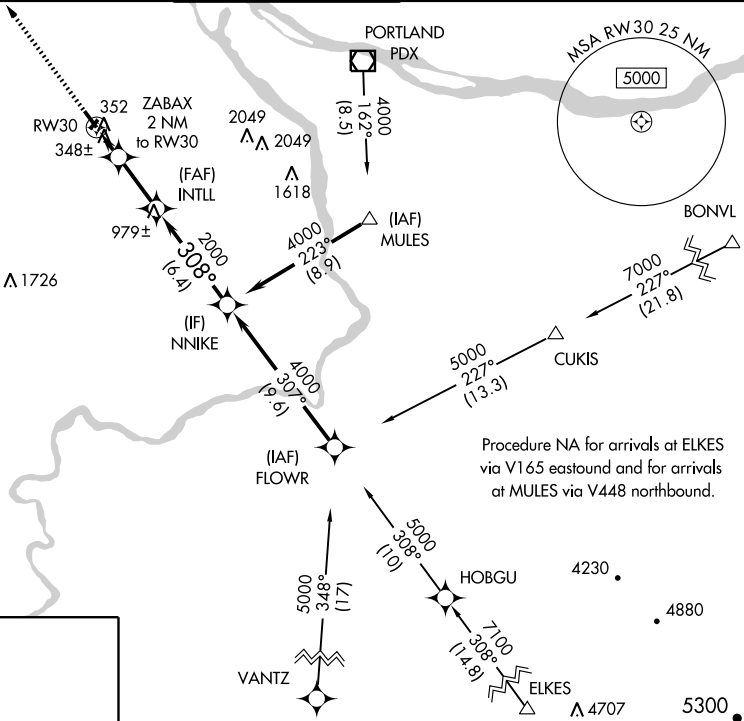
RNAV (GPS) RWY 30
PORTLAND-HILLSBORO (HIO)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. VDP and Baro-VNAV NA when using Portland Intl altimeter setting. When local altimeter setting not received, use Portland Intl altimeter setting and increase all DA and MDA 60 feet, increase LPV all Cats, LNAV/VNAV all Cats, and LNAV Cats C and D visibility ½ mile.

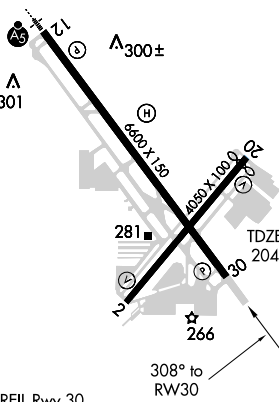
MISSED APPROACH: Climb to 3700 direct DUCKA and hold.

ATIS 127.65	PORTLAND APP CON 126.0 284.6	HILLSBORO TOWER* 119.3 (CTAF) 239.3	GND CON 121.7	UNICOM 122.95
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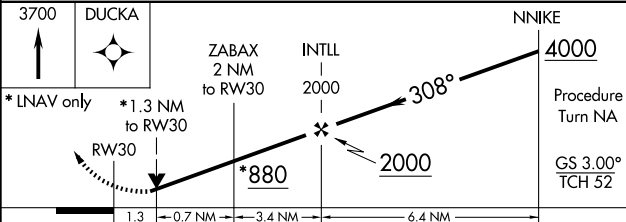
MISSED APCH FIX



ELEV 208



REIL Rwy 30
HIRL Rwy 12-30
MIRL Rwy 2-20



CATEGORY	A	B	C	D
LPV DA	589-1¼	385 (400-1¼)		
LNAV/VNAV DA	657-1½	453 (500-1½)		
LNAV MDA	660-1 456 (500-1)	660-1¼ 456 (500-1¼)	660-1½ 456 (500-1½)	
CIRCLING	680-1 472 (500-1)		760-2 472 (500-1½)	552 (600-2)

SCAPO FIVE DEPARTURE

SL-5063 (FAA)

PORTLAND-HILLSBORO (HIO)
PORTLAND, OREGON

ATIS 127.65
GND CON
121.7
HILLSBORO TOWER ★
119.3 (CTAF) 239.3
PORTLAND DEP CON
126.0 284.6

SCAPO
N45°45.12'
W123°01.68'
L-1

BATTLEGROUND
116.6 BTG
Chan 113

LOCALIZER
110.5
I-PDX
Chan 42

NEWBERG
117.4 UBG
Chan 121

TAKE-OFF MINIMUMS

- Rwy 20: Standard.
Rwy 2: Standard with minimum climb of 240' per NM to 1900.
Rwy 12: Standard with minimum climb of 308' per NM to 2700.
Rwy 30: Standard with minimum climb of 220' per NM to 2800.

TAKE-OFF OBSTACLE NOTES

- Rwy 2: Vehicle on road 247' from DER, 1' right of centerline, up to 15' AGL/220' MSL.
Terrain left and right of centerline beginning at DER up to 302' MSL.
Rwy 12: Terrain left and right of centerline beginning at DER up to 296' MSL.
Trees 1836' from DER, 8' left centerline, up to 125' AGL/331' MSL.
Rwy 20: Terrain left and right of centerline beginning at DER up to 306' MSL.
Trees and hangars beginning 60' from DER, 32' left of centerline, up to 93' AGL/311' MSL.
Trees, antennas and buildings beginning 564' from DER, 411' right of centerline, up to 74' AGL/280' MSL.
Rwy 30: Terrain left and right of centerline beginning at DER up to 292' MSL.
Trees beginning 1664' from DER, 626' right of centerline up to 194' AGL/363' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 2, 12, 20: Climbing left turn heading 270°, thence . . .

TAKE-OFF RUNWAY 30: Climb heading 308°, thence . . .

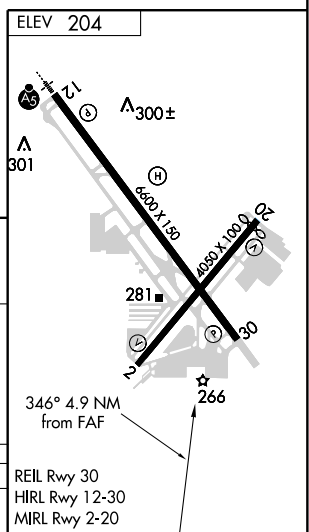
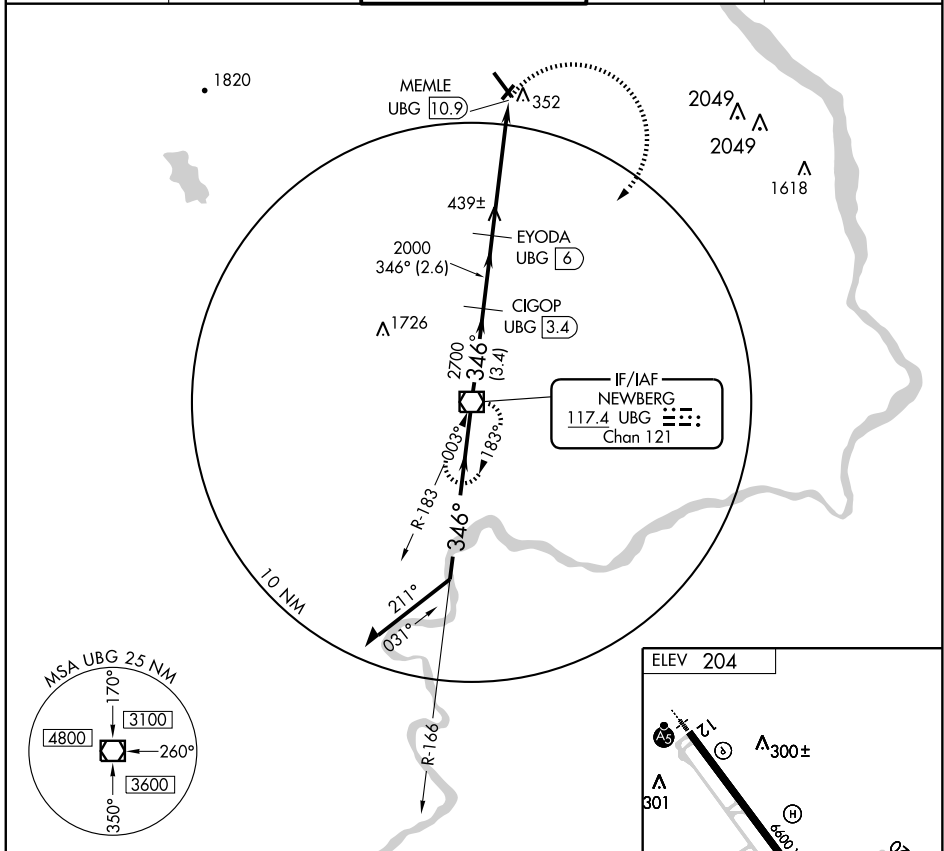
. . . Intercept and proceed via UBG VOR/DME R-334 to SCAPO INT/UBG 24 DME, thence via (assigned route).

VOR/DME UBG 117.4 Chan 121	APP CRS 346°	Rwy Idg TDZE Apt Elev N/A N/A 204
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VOR/DME-C

PORTLAND-HILLSBORO (H10)

		MISSED APPROACH: Climbing right turn to 3000 direct UBG VOR/DME and hold.		
ATIS 127.65	PORTLAND APP CON 126.0 284.6	HILLSBORO TOWER ★ 119.3 (CTAF) 0 239.3	GND CON 121.7	UNICOM 122.95



10070

PORTLAND INTL (PDX)
PORTLAND, OREGON



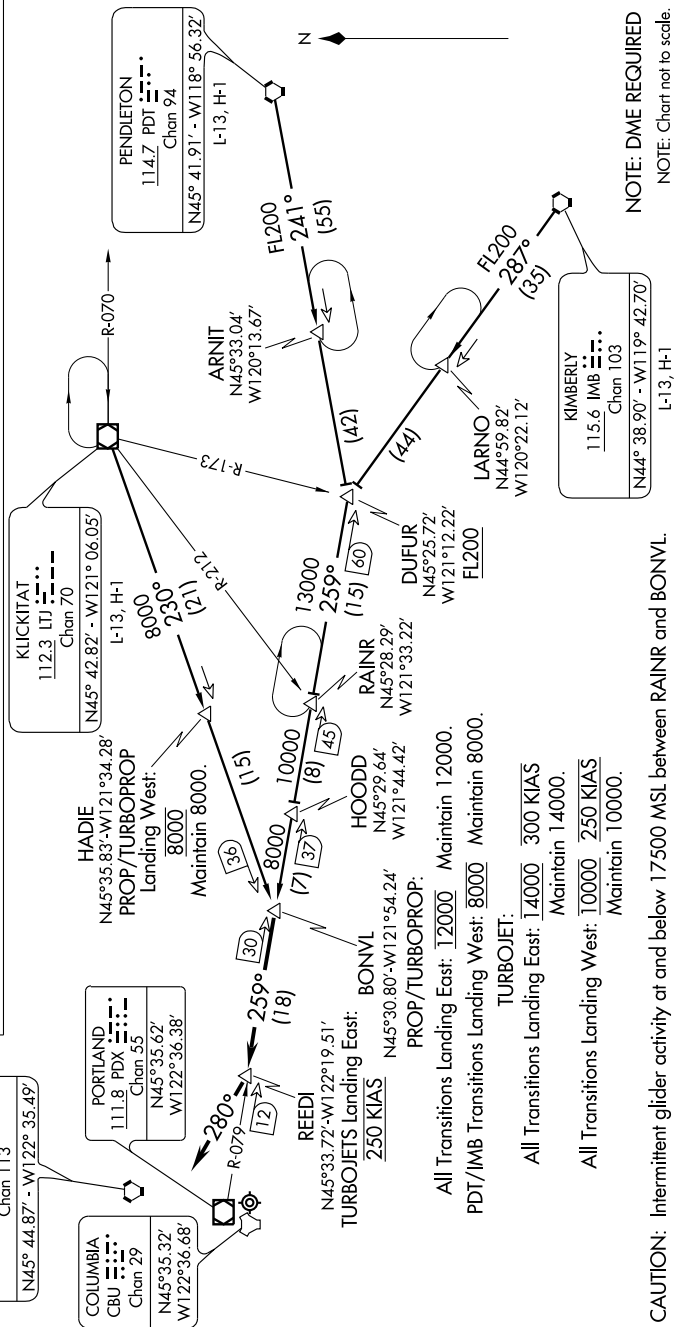
NW-1. 03 JUN 2010 to 01 JUL 2010

KIMBERLY TRANSITION (IMB.BONVL6): From over IMB VORTAC via IMB R-287 to DUFUR, then via PDX R-079 to BONVL. Thence. . . .

KLICKITAT TRANSITION (LTJ.BONVL6): From over LTJ VOR/DME via LTJ R-230 to BONVL. Thence. . . .

PENDELTON TRANSITION (PDT.BONVL6): From over PDT VORTAC via PDT R-241 to DUFUR, then via PDX R-079 to BONVL. Thence. . . .

....From over BONVL :
Landing East - via PDX R-079 to REEDI DME fix. Depart REEDI DME fix heading 280° for radar vectors to final approach course.
Landing West - via PDX R-079 to REEDI DME fix, for radar vectors to final approach course.



CAUTION: Intermittent glider activity at and below 17500 MSL between RAINR and BONVL.

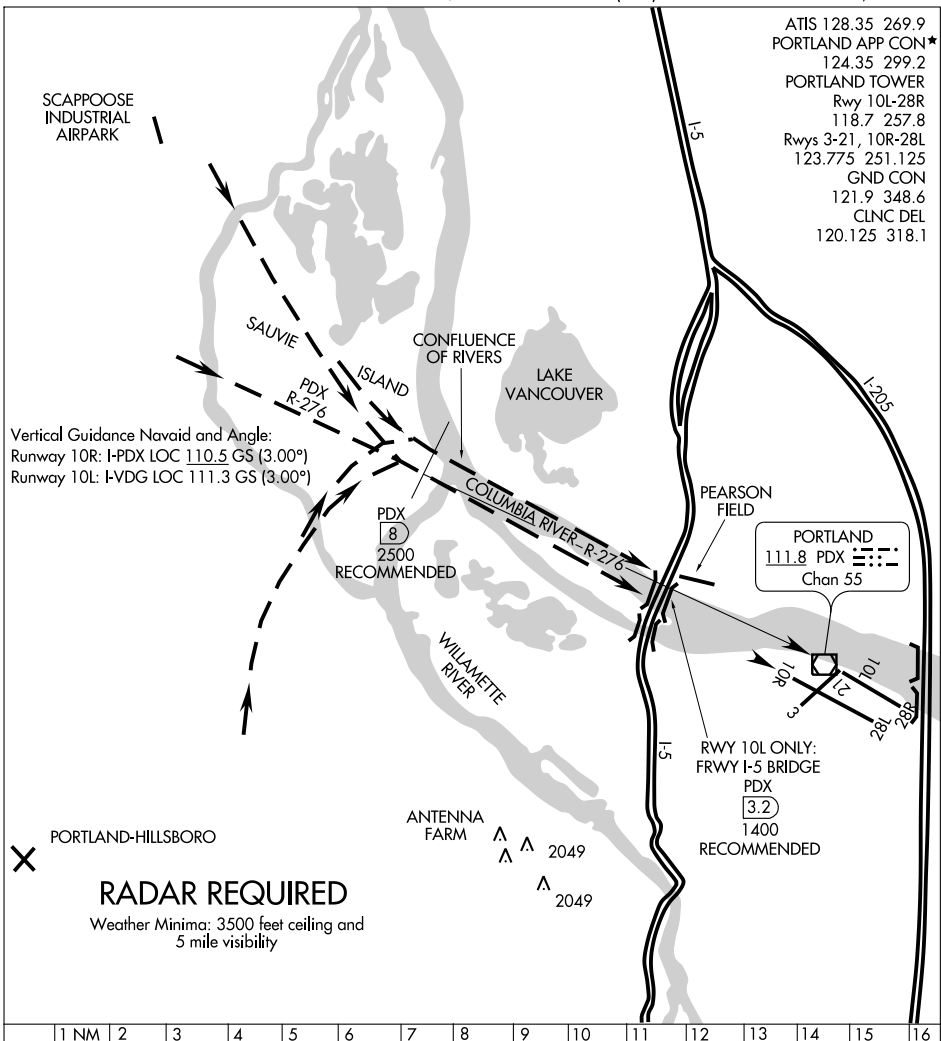
NW-1. 03 JUN 2010 to 01 JUL 2010

COLUMBIA VISUAL RWY 10L/R

AL-330 (FAA)

PORTLAND INTL (PDX)

PORTLAND, OREGON



PROCEDURE NOT AUTHORIZED AT NIGHT.

HELNS FOUR ARRIVAL

ST-330 (FAA)

PORTLAND, OREGON

PORTLAND APP CON

124.35 299.2

PORTLAND INTL ATIS

128.35 269.9

PORTLAND-HILLSBORO ATIS

127.65

SEATTLE

116.8 SEA

Chan 115

N47°26.12'-W122°18.58'

L-1, H-1

10000
+9700
161°
(71)HELNS
N46°15.42'
W122°18.58'10000
180°
(111)7000
(22)

BATTLE GROUND

116.6 BTG

Chan 113

N45°44.87'-W122°35.49'

KRATR

N46° 05.39' - W122° 24.17'

NOTE: Maintain the last assigned altitude. Upon receipt of "Descend via the HELNS4": . . .

PROP/TURBOPROP: Cross at and maintain 10,000'.

TURBOJET: Cross at and maintain 12,000' at 300 KIAS or less.

PORTLAND
INTLPORTLAND-
HILLSBORO

PORTLAND-TROUTDALE

AURORA
STATE

NOTE: Chart not to scale.

NOTE: DME and RADAR required.

SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence....

.... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence....

LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course.

LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.

LOCALIZER I-PDX 110.5 Chan 42	APCH CRS 101°	Rwy Idg 11,000 TDZE 24 Arprt Elev 30
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JAL-330 [USAF]

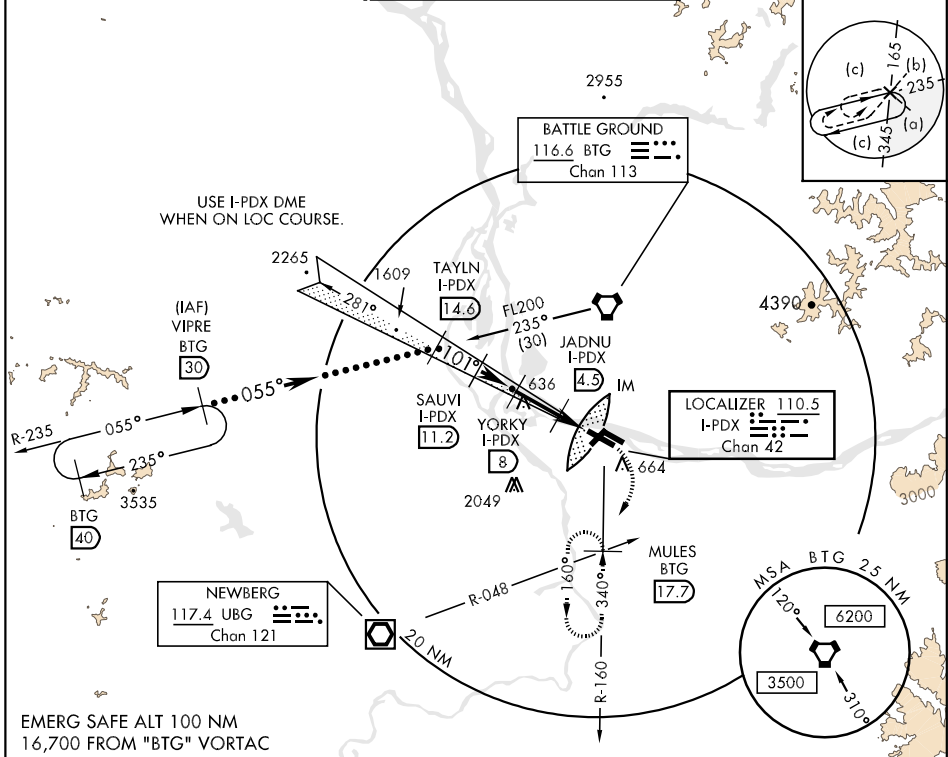
PORTLAND INTL (KPDJ)

* When ALS inop, increase RVR to 40 and vis to 3/4 mile.
 ** When ALS inop, increase CAT C RVR to 50 and vis to 1 mile, CAT DE RVR to 60 and vis to 1 1/4 miles.

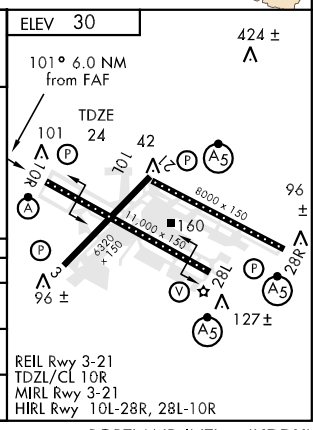
ALSF-2

MISSED APPROACH: Climb to 900, then climbing right turn to 4000 via BTG VORTAC R-160 to MULES and hold.

ATIS ARR 128.35 269.9 DEP 120.625 239.25	PORTLAND APP CON 124.35 299.2	PORTLAND TOWER 118.7 257.8 123.775 251.125 Rwy 3-21, 10R-28L	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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<div>VIPRE BTG FL200 30 055° 3800 GS 3.00° TCH 53 VGS1 and ILS glidepath not coincident. † LOC ONLY</div>		<div>TAYLN I-PDX 14.6 101° 3000 2000</div>	<div>SAUVI I-PDX 11.2 107° 3000 2000</div>	<div>YORKY I-PDX 8 JADNU I-PDX 4.3 I-PDX 4.4 IM 860+ 3.5 NM 2.4 NM .1</div>	<div>900 4000 BTG R-160 MULES BTG 17.7 I-PDX DME 2</div>
CATEGORY	C	D	E		
S-ILS 10R *	224/18	200 (200-¾)	224/24 200 (200-½)		
S-LOC/DME 10R **	380/24 356 (400-½)	380/40 356 (400-¾)			
CIRCLING	740-2 710 (800-2)	1020-3 990 (1000-3)	1060-3 1030 (1100-3)		



NW-1-.03 JUN 2010 to 01 JUL 2010

LOCALIZER I-AP 111.3 Chan 50	APCH CRS 279°	Rwy Idg TDZE Arpt Elev 8000 30 30
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JAL-330 [USAF]

PORTLAND INTL (KPDJ)



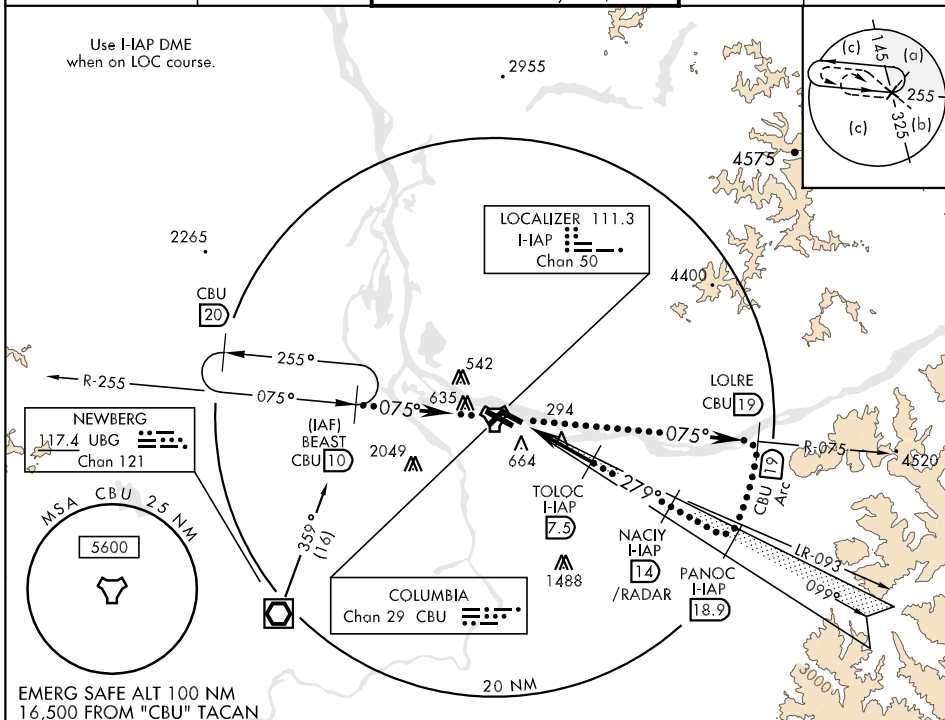
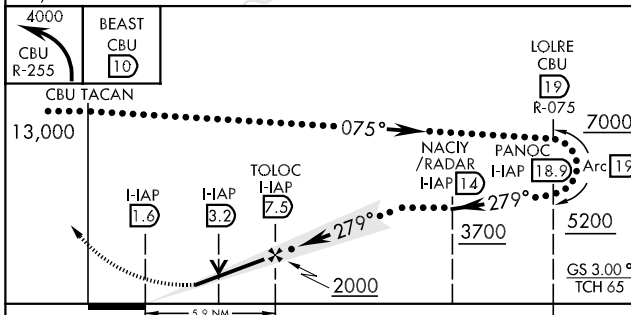
* When ALS inop, increase CAT E vis to 2 miles.

** Circling NA at night to Rwy 3.

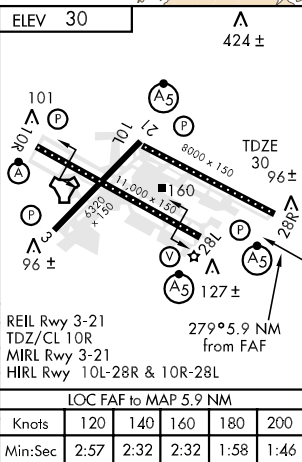
MALSR

MISSED APPROACH: Climbing left turn to 4000
via CBU TACAN R-255 to BEAST and hold.

ATIS ARR 128.35 269.9 DEP 120.625 239.25	PORTLAND APP CON 124.35 299.2	PORTLAND TOWER 118.7 257.8 Rwy 10L-28R 123.775 251.125 Rwy 3-21, 10R-28L	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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Use I-AP DME
when on LOC course.EMERG SAFE ALT 100 NM
16,500 FROM "CBU" TACAN

CATEGORY	C	D	E
S-ILS 28R	280/40	250	(300-34)
S-LOC 28R*	600/50 570 (600-1)	600/60 570 (600-14)	600-11/2 570 (600-1/2)
CIRCLING**	740-2 710 (800-2)	1020-3 990 (1000-3)	1060-3 1030 (1100-3)



TACAN Chan 29	APCH CRS 106°	Rwy Idg 11,000 TDZE 24 Arpt Elev 30
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JAL-330 [USAF]

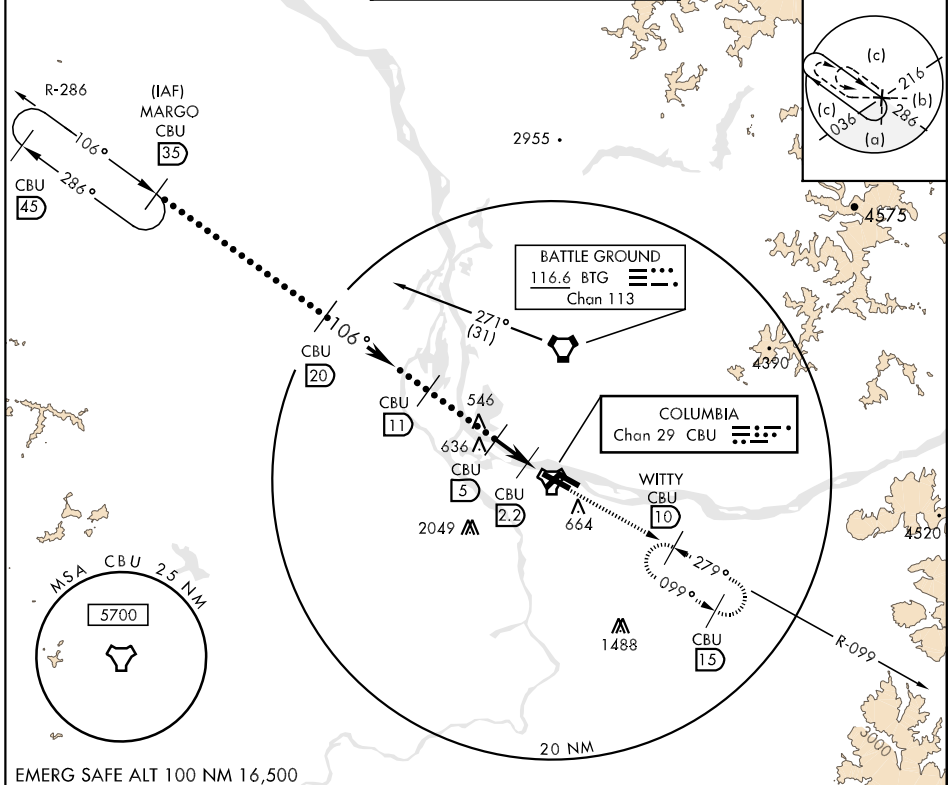
PORTLAND INTL (KPDJ)

V * When ALS inop, increase CAT C RVR to 50 and vis to 1 mile.

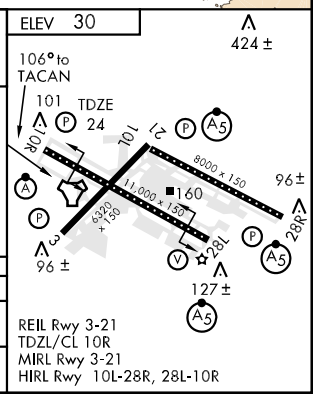
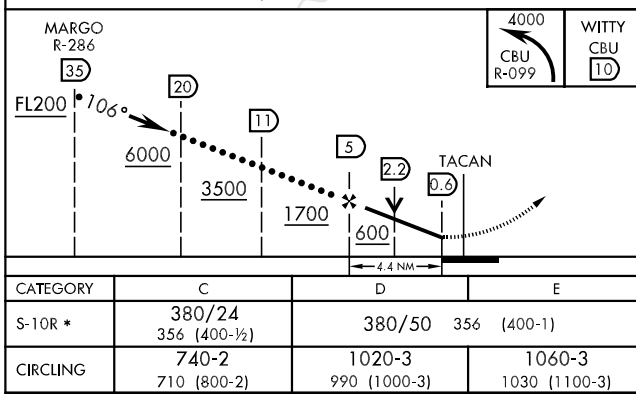


MISSED APPROACH: Climb to 4000 via CBU TACAN R-099 to WITTY/CBU 10 DME and hold.

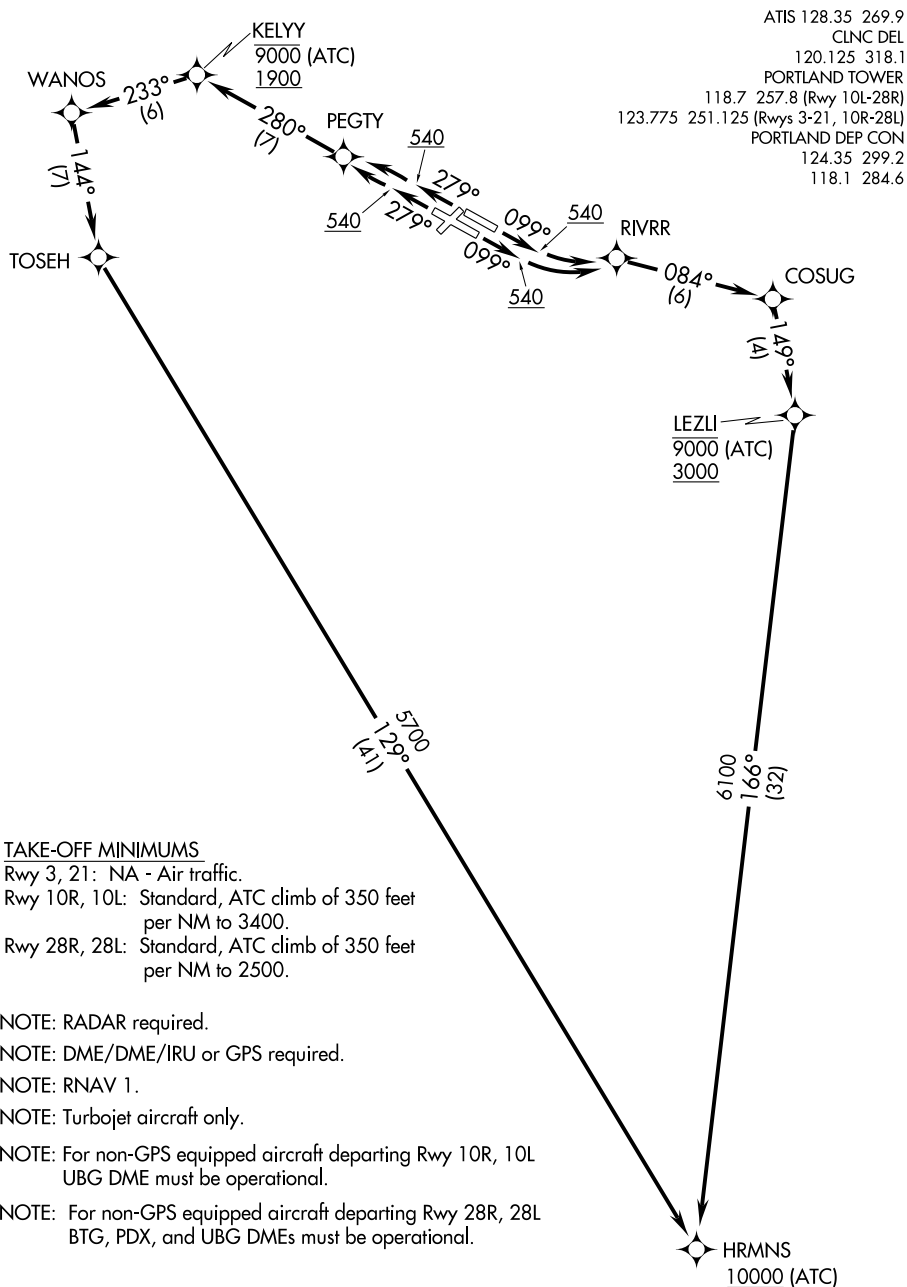
ATIS ARR 128.35 269.9 DEP 120.625 239.25	PORTLAND APP CON 124.35 299.2	PORTLAND TOWER 118.7 257.8 Rwy 10L-28R 123.775 251.125 Rwy 3-21, 10R-28L	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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EMERG SAFE ALT 100 NM 16,500



NW-1-03 JUN 2010 to 01 JUL 2010





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 149° track to cross LEZLI at or below 9000 (ATC)/3000, then via 166° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

TAKE-OFF RUNWAY 10L: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 149° track to cross LEZLI at or below 9000 (ATC)/3000, then via 166° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

TAKE-OFF RUNWAY 28R: Climb heading 279° to 540 feet, then left turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 129° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

TAKE-OFF RUNWAY 28L: Climb heading 279° to 540 feet, then right turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 129° track to HRMNS, cross HRMNS at or above 10000 (ATC), thence....

....maintain assigned altitude, expect filed altitude 10 minutes after departure.

TAKE-OFF OBSTACLE NOTES

Rwy 10L: Rising terrain and vehicle on road beginning 7' from DER, 376' left of centerline, up to 17' AGL/60' MSL.

Rwy 10R: Pole 1996' from DER, 758' right of centerline, 54' AGL/74' MSL.

Rwy 28L: Trees 1873' from DER, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R: Multiple signs, poles, and vehicle on road beginning 876' from DER, 654' right of centerline, up to 27' AGL/69' MSL.

▽

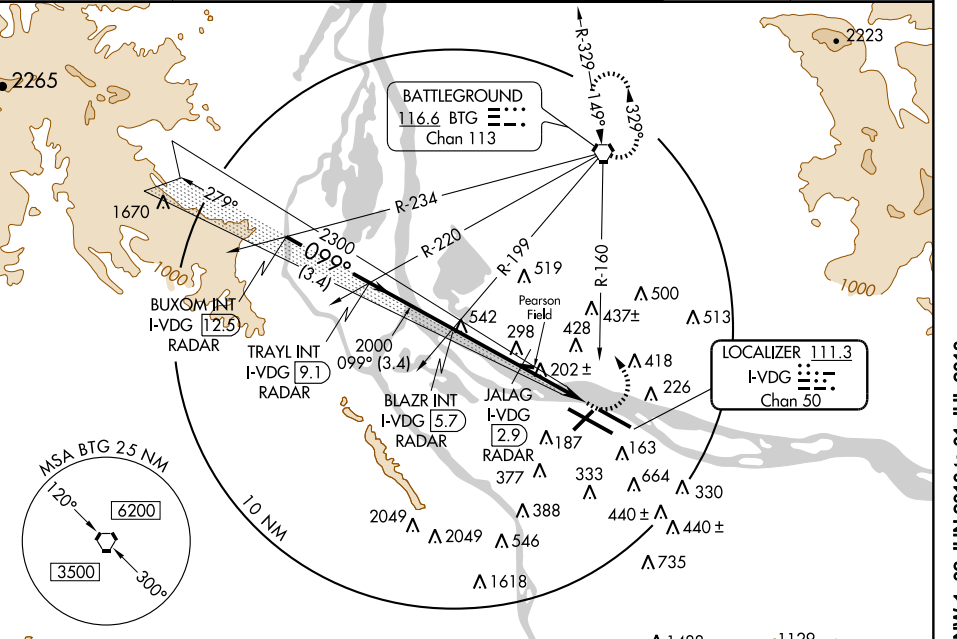
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MALS R

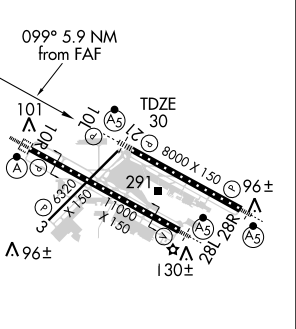
MISSED APPROACH:

Climb to 700, then climbing left turn to 4000 via BTG R-160 to BTG VORTAC and hold.

ATIS	PORTLAND APP CON	PORTLAND TOWER	GND CON	CLNC DEL
128.35 269.9	124.35 299.2	Rwy 10L-28R 118.7 257.8	Rwys 3-21, 10R-28L 123.775 251.125	121.9 348.6
				120.125 318.1



ELEV 30	D
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REIL Rwy 3 and 21					
TDZ/CL Rwy 10R					
MIRL Rwy 3-21					
HIRL Rwy 10L-28R and 10R-28L					
FAF to MAP 5.5 NM					
Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

RADAR or DME REQUIRED

BUXOM INT I-VDG 12.5 RADAR	TRAYL INT I-VDG 9.1 RADAR	BLAZR INT I-VDG 5.7 RADAR	JALAG I-VDG 2.9 RADAR	I-VDG 1.3	I-VDG 0.2
3000	2300	2000	1100	700	4000
Procedure Turn NA	GS 3.00° TCH 50	VGSI and ILS glidepath not coincident.	*LOC only		
3.4 NM	3.4 NM	2.8 NM	1.1	0.5	
CATEGORY	A	B	C	D	
S-ILS 10L	293/24	263 (300-½)			
S-LOC 10L	480/24	450 (500-½)	480/50	480/60	
			450 (500-1)	450 (500-1½)	
CIRCLING	720-1	740-1	740-2	1020-3	
	690 (700-1)	710 (800-1)	710 (800-2)	990 (1000-3)	

ILS or LOC RWY 10R
PORTLAND INTL (PDX)

- MISSED APPROACH:** Climb to 900, then climbing right turn to 4000 via BTG R-160 to MULES INT/BTG VORTAC 17.7 DME and hold.

D

FAF to MAP 5.9 NM					
Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

CATEGORY	A	B	C	D	E
S-ILS 10R	224/18 200 (200-½)				224/24 200 (200-½)
S-LOC 10R	860/24 836 (900-½)	860/40 836 (900-¾)	860-2 836 (900-2)	860-2 ¼ 836 (900-2 ¼)	860-2 ½ 836 (900-2 ½)
CIRCLING	860-1 830 (900-1)	860-1 ¼ 830 (900-1 ¼)	860-2 ½ 830 (900-2 ½)	1020-3 990 (1000-3)	1060-3 1030 (1100-3)
DME MINIMUMS					
S-LOC 10R	380/24 356 (400-½)			380/40	356 (400-¾)
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)	1060-3 1030 (1100-3)

ILS or LOC RWY 28L PORTLAND INTL (PDX)

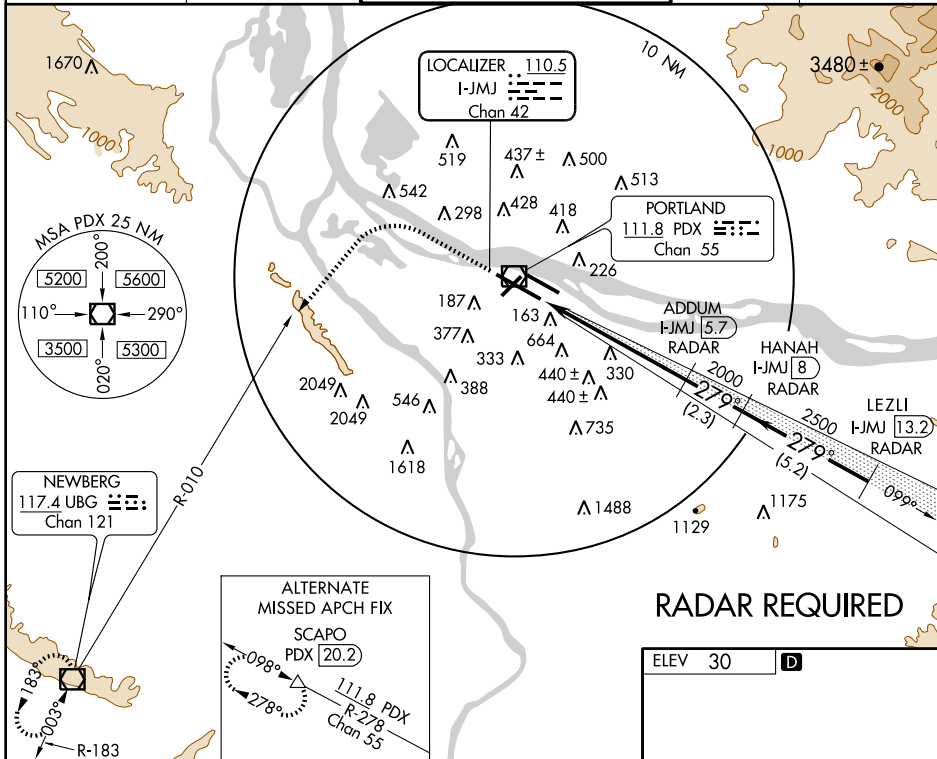
LOC/DME I-JMJ 110.5 Chan 42	APP CRS 279°	Rwy Idg 11000 TDZE 23 Apt Elev 30
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⚠ RADAR or DME required. For inoperative MALSR, increase S-ILS visibility to RVR 5000 all Cats and S-LOC Cat E visibility to 2 miles. Autopilot coupled approach NA below 580.

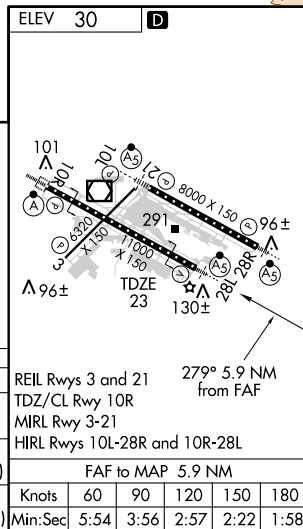


MISSED APPROACH: Climb to 1700 then climbing left turn to 4000 via UBG R-010 to UBG VOR/DME and hold.

ATIS 128.35 269.9	PORTLAND APP CON ★ 124.35 299.2	PORTLAND TOWER Rwy 10L-28R 118.7 257.8 Rwys 3-21, 10R-28L 123.775 251,125	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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	1700	4000	UBG R-010 117.4	UBG 117.4	ADDUM I-JMJ 5.7 RADAR	HANAH I-JMJ 8 RADAR	LEZLI I-JMJ 13.2 RADAR
VGSI and ILS glidepath not coincident.							
			I-JMJ 1.5	2000	279°	3500	GS 3.00° TCH 55
			1.7 NM	4.2 NM	2.3 NM	5.2 NM	
CATEGORY	A	B	C	D	E		
S-ILS-28L	306/24 283 (300-½)						
S-LOC-28L	620/24	597 (600-½)	620/50 597 (600-1)	620/60 597 (600-1½)	620-1½ 597 (600-1½)		
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)	1060-3 1030 (1100-3)		



NW-1. 03 JUN 2010 to 01 JUL 2010

▼ Inoperative table does not apply to S-ILS all Cats.

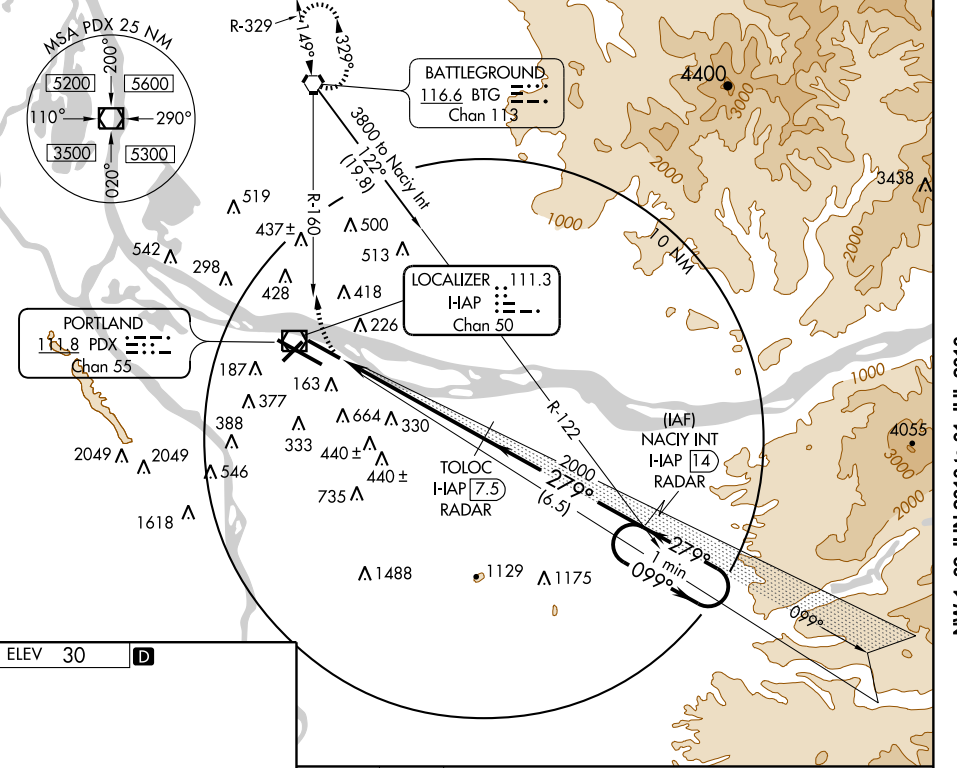
▲ For inoperative MALSR increase S-LOC Cat A and B visibility to 1.

Radar or DME required.

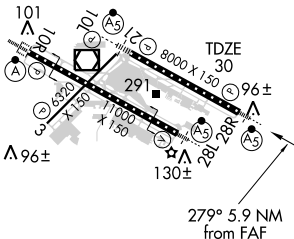
MALSR

MISSED APPROACH: Climbing right turn to 4000 via BTG R-160 to BTG VORTAC and hold.

ATIS 128.35 269.9	PORTLAND APP CON 124.35 299.2	PORTLAND TOWER Rwy 10L-28R 118.7 257.8 Rwys 3-21, 10R-28L 123.775 251.125	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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ELEV 30 **D**



REIL Rwys 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwys 10L-28R and 10R-28L

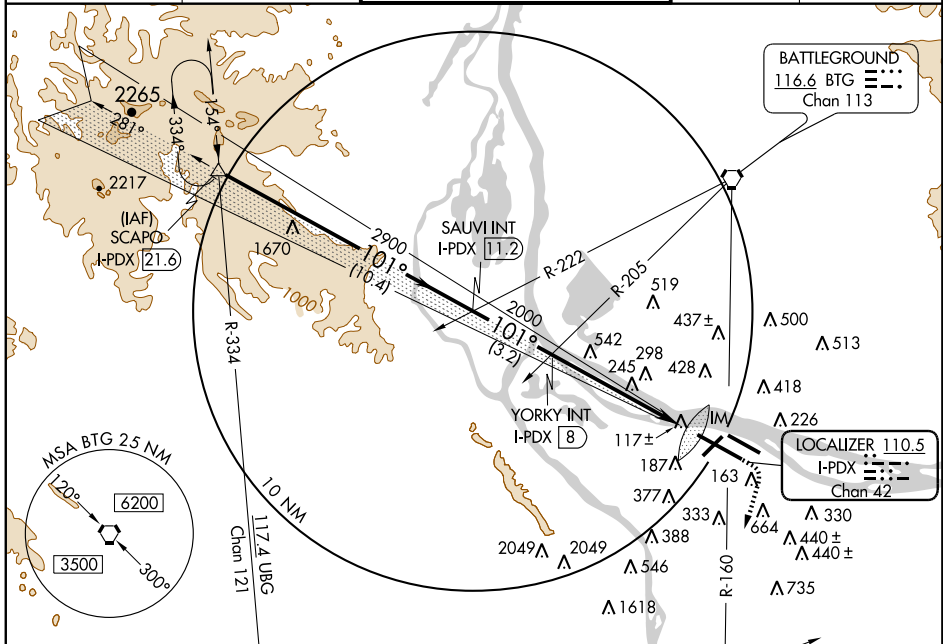
FAF to MAP 5.9 NM

Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

	4000	BTG 116.6	TOLOC I-HAP 7.5 RADAR	NACY INT I-HAP 14 RADAR	One Minute Holding Pattern
	BTG R-160	Use I-HAP DME when on the localizer course.	I-HAP 3.2	I-HAP 1.6	099° → 3800 ← 279°
	2000	2000	2000	2000	GS 3.00° TCH 65
CATEGORY	A	B	C	D	
S-ILS 28R	280/40 250 (300-¾)				
S-LOC 28R	600/40	570 (600-¾)	600/50 570 (600-1)	600/60 570 (600-1½)	
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)	

NW-1. 03 JUN 2010 to 01 JUL 2010

ILS RWY 10R (CAT II)
PORTLAND INTL (PDX)



SCAPO INT I-PDX 21.6

VGSI and ILS glidepath not coincident

SAUVI INT I-PDX 11.2

YORKY INT I-PDX 8

900 4000

MULES △

4000 101° 2900 2000

GS 3.00° TCH 53

Procedure Turn NA

2000

DA RA 107 IM

24 MSL

10.4 NM 3.2 NM 5.8 NM 89° 104°

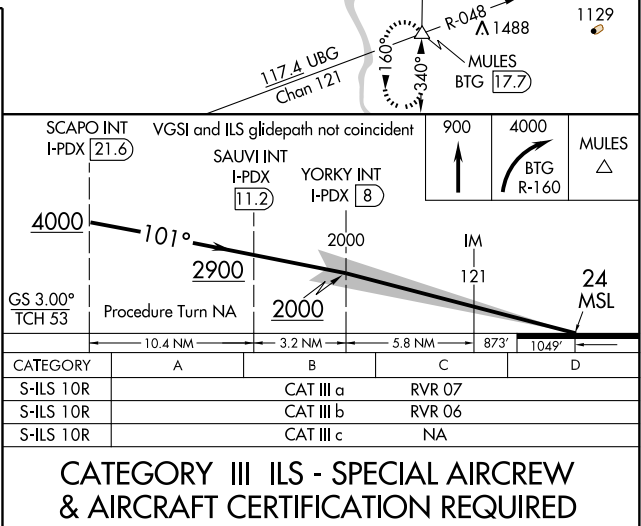
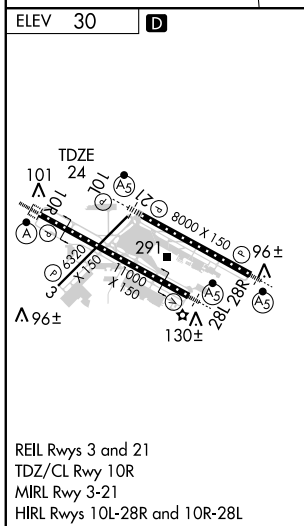
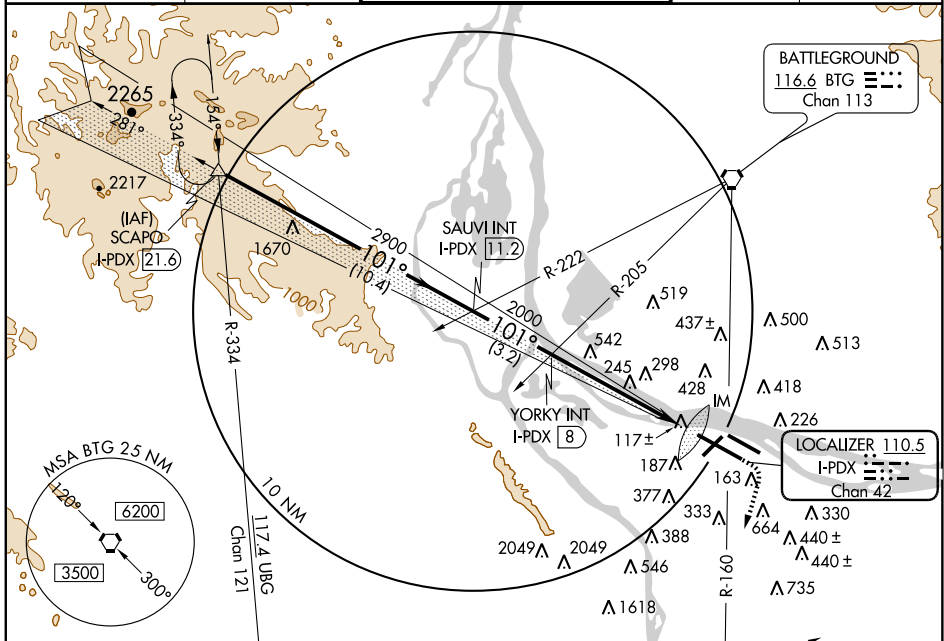
CATEGORY	A	B	C	D
S-ILS 10R	RA 107/12 100 DA 124			

CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

LOC/DME I-PDX 110.5 Chan 42	APP CRS 101°	Rwy Idg TDZE Apt Elev	11000 24 30
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ILS RWY 10R (CAT III) PORTLAND INTL (PDX)

<p>ATIS 128.35 269.9</p>		<p>PORTLAND APP CON* 124.35 299.2</p>		<p>PORTLAND TOWER Rwy 10L-28R 118.7 257.8</p>		<p>Rwys 3-21, 10R-28L 123.775 251.125</p>		<p>GND CON 121.9 348.6</p>		<p>CLNC DEL 120.125 318.1</p>	
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NW-1. 03 JUN 2010 to 01 JUL 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540, then left turn direct RIVRR, then via track 084° to COSUG, then via track 027° to cross OKKOR at or below 9000/4600, then via track 045° to LAVAA, thence....

TAKE-OFF RUNWAY 10L: Climb heading 099° to 540, then left turn direct RIVRR, then via track 084° to COSUG, then via track 027° to cross OKKOR at or below 9000/4600, then via track 045° to LAVAA, thence....

TAKE-OFF RUNWAY 28R: Climb heading 279° to 540, then left turn direct PEGTY, then via track 280° to cross KELYY at or below 9000/2300, then right turn via track 013° to ARUPT, then via track 073° to LAVAA, thence....

TAKE-OFF RUNWAY 28L: Climb heading 279° to 540, then right turn direct PEGTY, then via track 280° to cross KELYY at or below 9000/2300, then right turn via track 013° to ARUPT, then via track 073° to LAVAA, thence....

....via (Transition), maintain assigned altitude, expect filed altitude 10 minutes after departure.

PENDLETON TRANSITION (LAVAA2.PDT)

YAKIMA TRANSITION (LAVAA2.YKM)

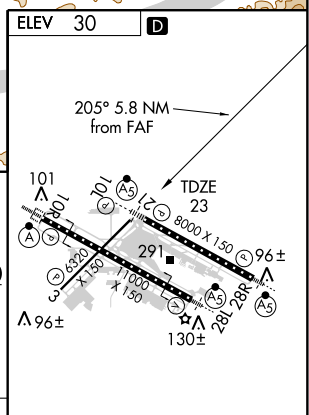
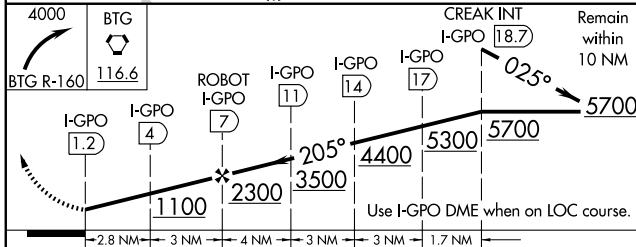
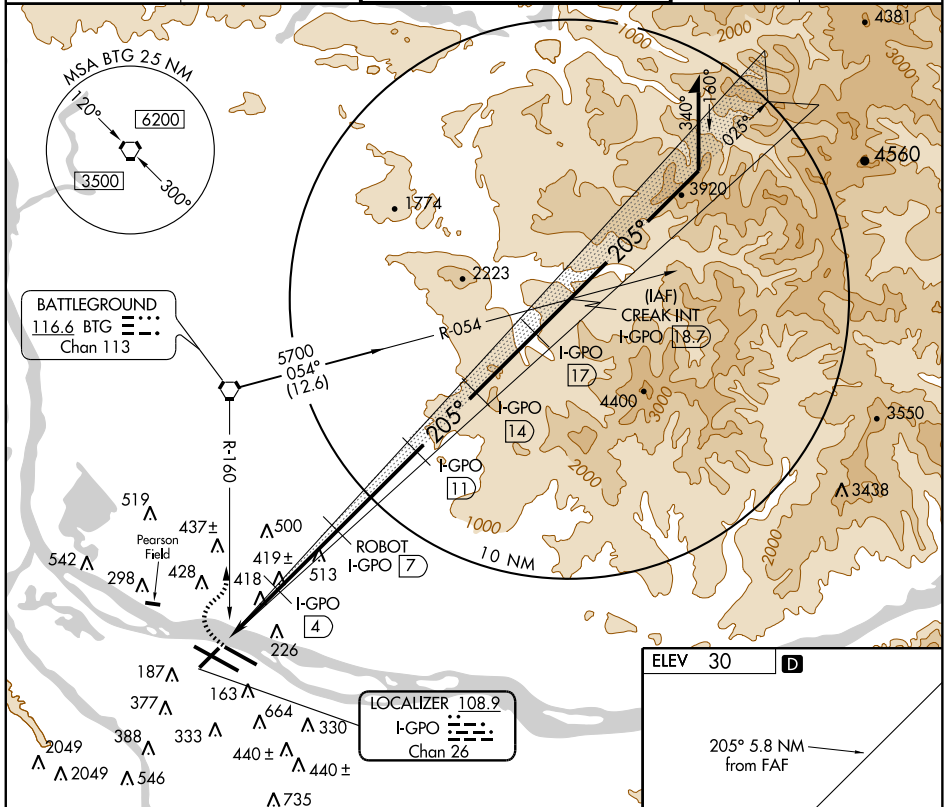
LOC/DME I-GPO 108.9 Chan 26	APP CRS 205°	Rwy Idg TDZE Apt Elev 6320 23 30
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LOC/DME RWY 21

PORTLAND INTL (PDX)

<p>ATIS 128.35 269.9</p>		<p>PORTLAND APP CON* 124.35 299.2</p>		<p>PORTLAND TOWER Rwy 10L-28R Rwy 3-21, 10R-28L 118.7 257.8 123.775 251,125</p>		<p>GND CON 121.9 348.6</p>		<p>CLNC DEL 120.125 318.1</p>	
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MISSED APPROACH: Climbing right turn to 4000
via BTG R-160 to BTG VORTAC.



CATEGORY	A	B	C	D
S-21	680-1 657 (700-1)	680-1 657 (700-1)	680-1 657 (700-1)	680-2 657 (700-2)
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)

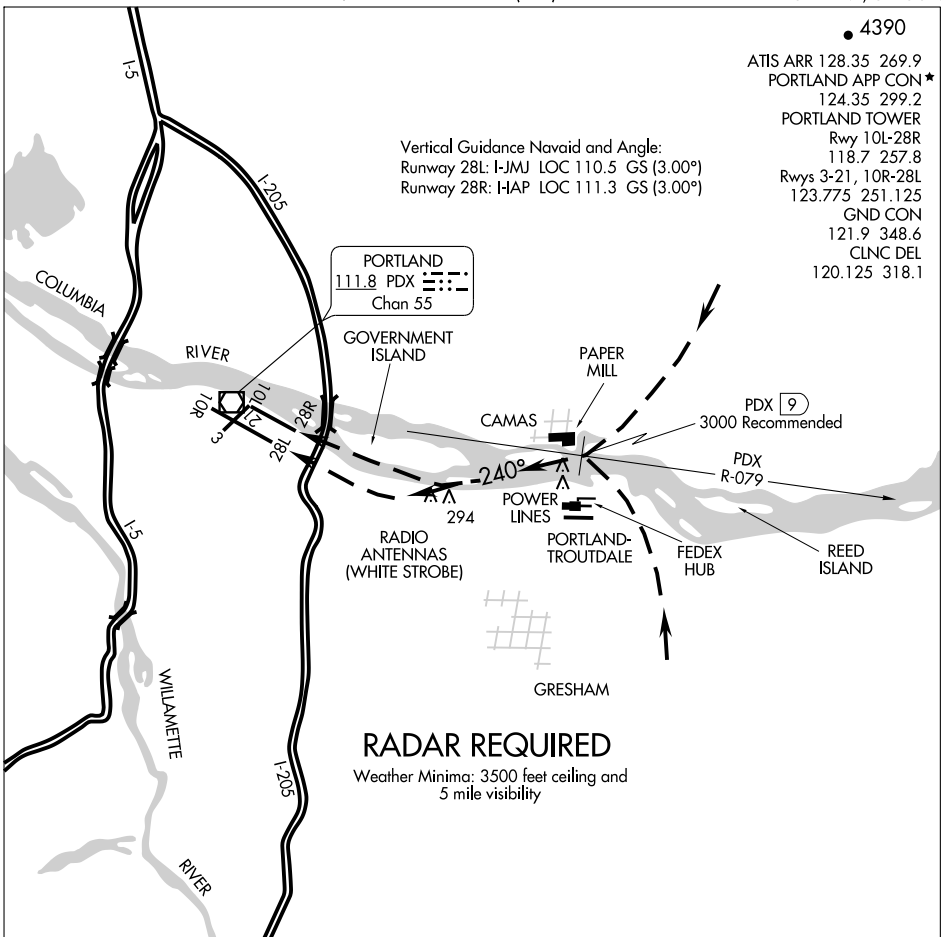
REIL Rwy 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwy 10L-28R and 10R-28L

MILL VISUAL RWY 28L/R

AL-330 (FAA)

PORTLAND INTL (PDX)

PORTLAND, OREGON



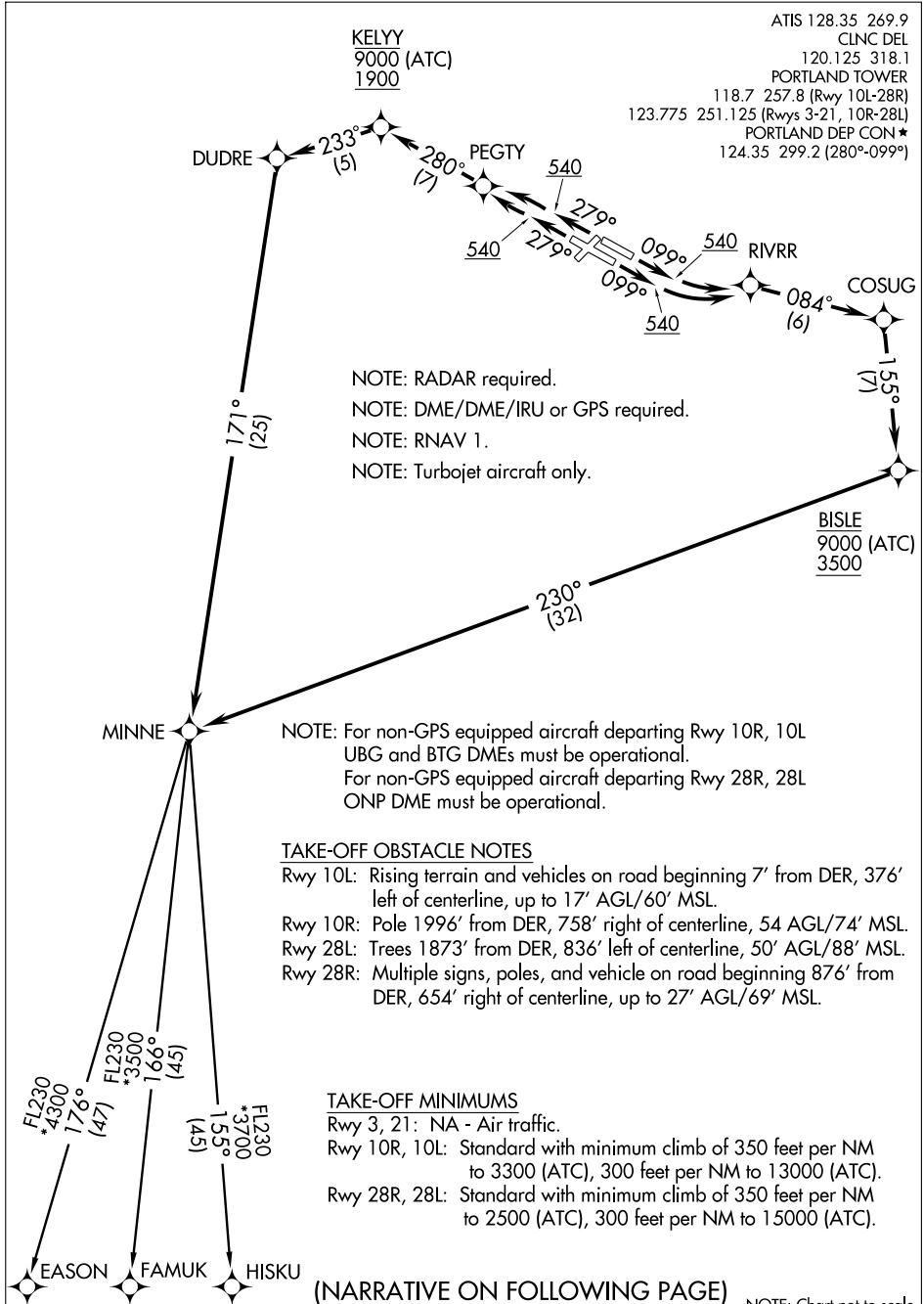
RADAR REQUIRED

Weather Minima: 3500 feet ceiling and
5 mile visibility

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22

23

When visual approaches to Runways 28L/R are in progress, clearances to aircraft will be issued utilizing the following phraseology: "(IDENT) CLEARED FOR MILL VISUAL RUNWAY 28 LEFT/RIGHT APPROACH."





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540, then left turn direct to RIVRR, then via track 084° to COSUG, then via track 155° to cross BISLE at or below 9000/3500, then via track 230° to MINNE, thence....

TAKE-OFF RUNWAY 10L: Climb heading 099° to 540, then left turn direct RIVRR, then via track 084° to COSUG, then via track 155° to cross BISLE at or below 9000/3500, then via track 230° to MINNE, thence....

TAKE-OFF RUNWAY 28R: Climb heading 279° to 540, then left turn direct PEGTY, then via track 280° to cross KELYY at or below 9000/1900, then via track 233° to DUDRE, then via track 171° to MINNE, thence....

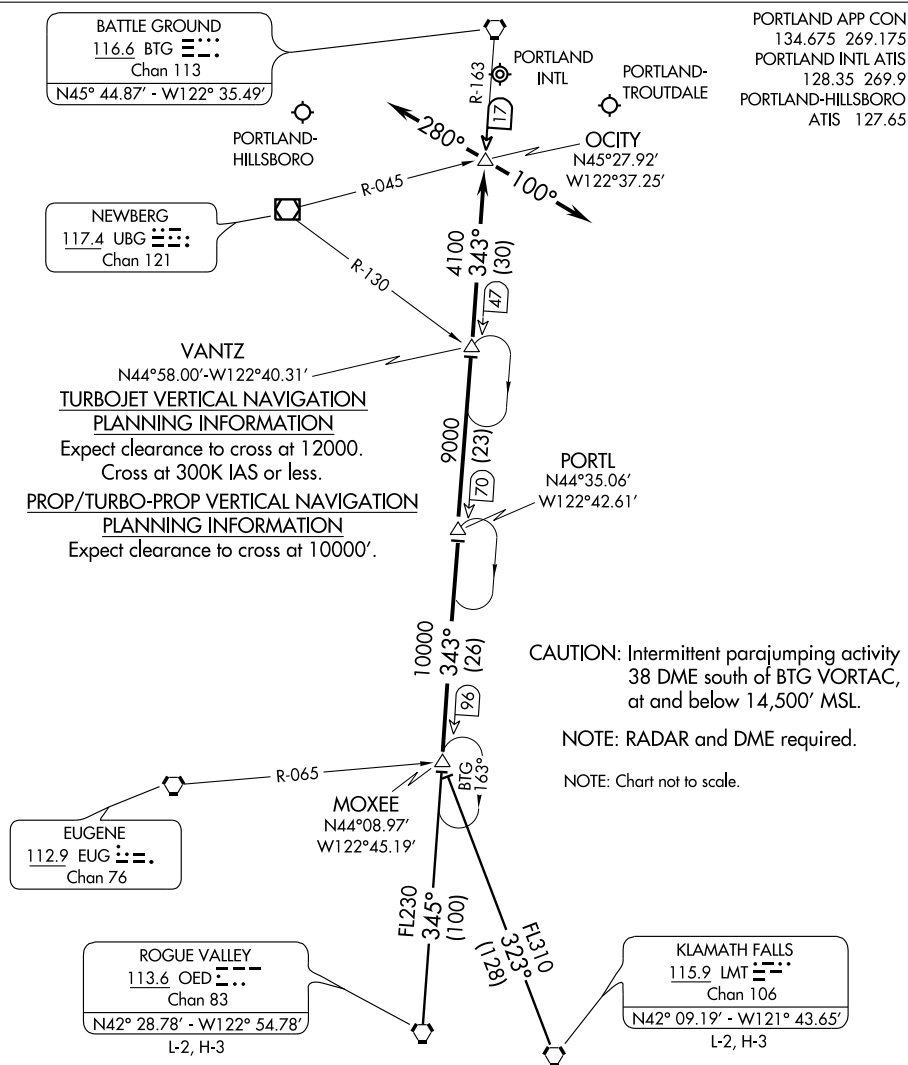
TAKE-OFF RUNWAY 28L: Climb heading 279° to 540, then right turn direct PEGTY, then via track 280° to cross KELYY at or below 9000/1900, then via track 233° to DUDRE, then via track 171° to MINNE, thence....

....via (Transition), maintain assigned altitude, expect filed altitude 10 minutes after departure.

EASON TRANSITION (MINNE2.EASON)

FAMUK TRANSITION (MINNE2.FAMUK)

HISKU TRANSITION (MINNE2.HISKU)



KLAMATH FALLS TRANSITION (LMT.MOXEE6): From over LMT VORTAC via LMT R-323 to MOXEE INT. Thence . . .

ROGUE VALLEY TRANSITION (OED.MOXEE6): From over OED VORTAC via OED R-345 to MOXEE INT. Thence . . .

. . . From over MOXEE INT via BTG R-163 to OCITY INT. Thence via:

Landing East - Depart OCITY INT heading 280° for vectors to final approach course.

Landing West - Depart OCITY INT heading 100° for vectors to final approach course.

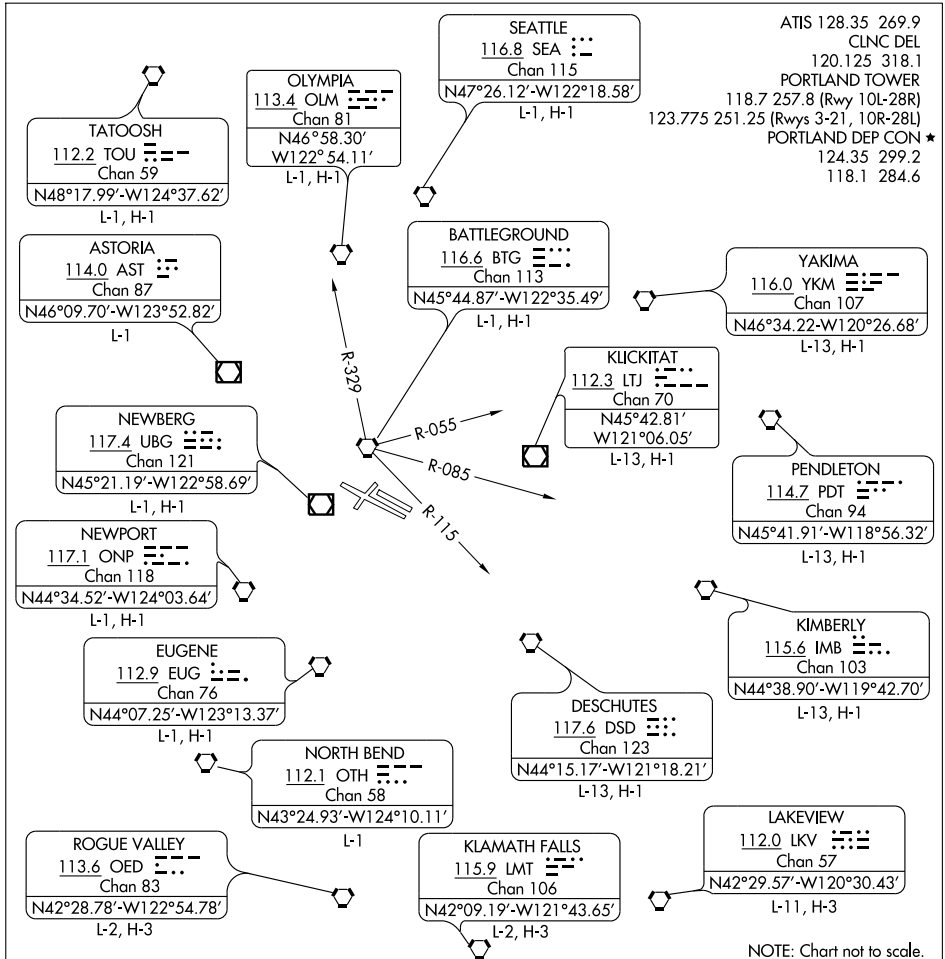
LOST COMMUNICATIONS: After OCITY INT, proceed direct BTG VORTAC.

PORTLAND SIX DEPARTURE

SL-330 (FAA)

PORTLAND INTL (PDX)

PORTLAND, OREGON



NOTE: Chart not to scale.

TAKE-OFF MINIMUMS:

- Rwy 3: Standard with minimum climb of 400' per NM to 2700.
- Rwy 21: Standard with minimum climb of 450' per NM to 2900.
- Rwy 10R: Standard with minimum climb of 375' per NM to 2700.
- Rwy 10L: Standard with minimum climb of 350' per NM to 2700.
- Rwy 28L: Standard with minimum climb of 375' per NM to 2900.
- Rwy 28R: Standard with minimum climb of 350' per NM to 2900.

NOTE: RADAR REQUIRED.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 3: Climb heading 025° to 600 thence....

TAKE-OFF RWY 10L: Climb heading 099° to 500 thence...

TAKE-OFF RWY 10R: Climb heading 099° to 500 thence....

TAKE-OFF RWY 28L: Climb heading 279° to 800 thence....

TAKE-OFF RWY 28R: Climb heading 279° to 800 thence....

TAKE-OFF RWY 21: Climb heading 205° to 500 thence....

....via assigned heading expect radar vectors to assigned route/fix. Maintain 3000, expect filed altitude five minutes after departures.

LOST COMMUNICATIONS: If no contact with ATC within 10 NM of airport, continue climb to assigned altitude and proceed direct BTG VORTAC. Continue climb via BTG R-329 within 10 NM to cross BTG VORTAC: BTG R-355 clockwise R-055 or R-085 clockwise R-115 at or above 5000 feet. Continue climb on course.

TAKE-OFF OBSTACLE NOTES:

Rwy 3: Signs, tower, trees, and vehicle on road beginning 468' from DER, 28' left of centerline, up to 100' AGL/449' MSL.

Poles, trees, and vehicle on road beginning 609' from DER, 7' left of centerline, up to 100' AGL/416' MSL.

Rwy 10L: Rising terrain and vehicle on road beginning 7' from DER, 376' left of centerline, up to 17' AGL/60' MSL.

Rwy 10R: Pole 1996' from DER, 758' right of centerline, 54' AGL/74' MSL.

Rwy 21: Trees beginning 1319' from DER, 155' right of centerline, up to 100' AGL/318' MSL.

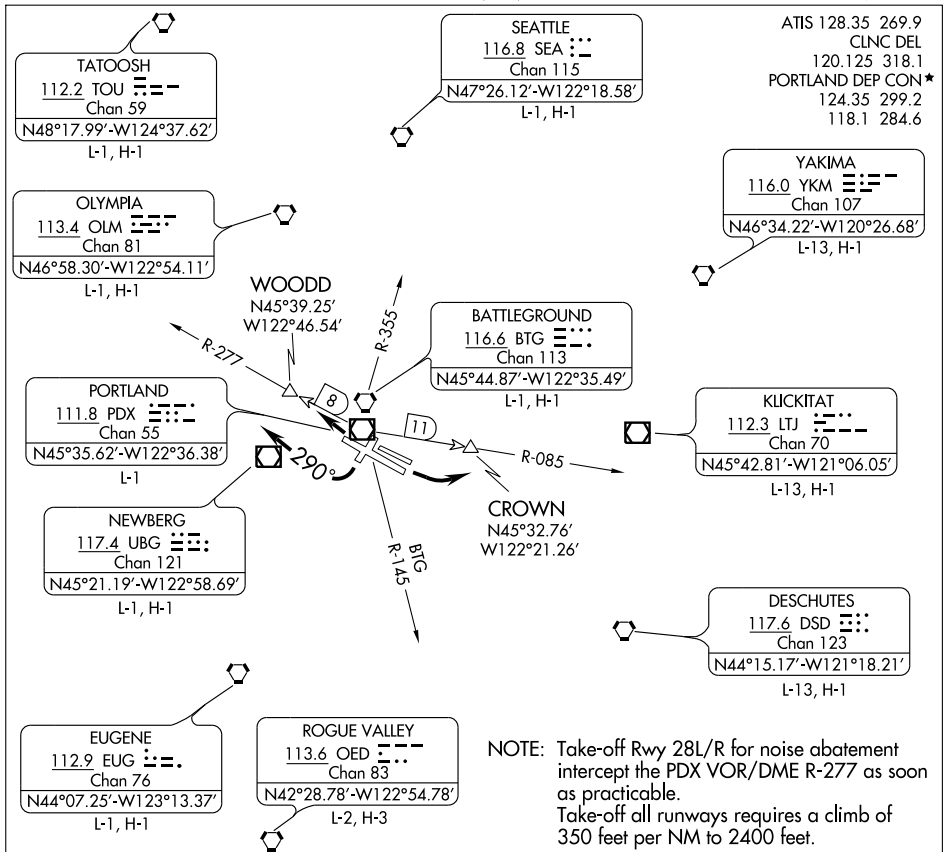
Poles and trees beginning 353' from DER, 36' left of centerline, up to 100' AGL/317' MSL.

Rwy 28L: Trees 1873' from DER, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R: Multiple signs, poles, and vehicle on road beginning 876' from DER, 654' right of centerline, up to 27' AGL/69' MSL.

RIVER SIX DEPARTURE

SL-330 (FAA)

PORTLAND INTL (PDX)
PORTLAND, OREGON

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 10L/R: Turn left, intercept and proceed via the PDX R-085 or as assigned, expect radar vectors to assigned route. Expect filed altitude/flight level 5 minutes after departure.

TAKE-OFF RUNWAY 21: Turn right fly heading 290° or as assigned, expect radar vectors on course. Expect filed altitude/flight level 5 minutes after departure.

TAKE-OFF RUNWAYS 28L/R: Intercept and proceed via the PDX R-277 or as assigned, expect radar vectors to assigned route. Expect filed altitude/flight level 5 minutes after departure.

LOST COMMUNICATIONS: If no contact with ATC within 10 NM of airport or leaving 3,000', continue climb to assigned altitude and proceed direct to BTG VORTAC, thence via (assigned route). If proceeding via BTG VORTAC R-355 CW R-145, a 340 feet per NM climb is required to 13800 feet.

ALTERNATE LOST COMMUNICATIONS: When BTG VORTAC is out of service: If no contact with ATC leaving 3,000', continue climb to assigned altitude direct UBG VOR/DME.

WAAS
CH 81804
W10B

APP CRS
099°

Rwy Idg
TDZE
Apt Elev

8000
30
30

DME/DME RNP-0.3 NA.

For uncompensated Baro-VNAV systems, LNAV/VNAV
NA below -1.5°C (5°F) or above 49°C (120°F).

MALSR

MISSED APPROACH: Climb to 3800 direct NACIY WP and hold.

ATIS 128.35 269.9	PORTLAND APP CON* 124.35 299.2	PORTLAND TOWER Rwy 10L-28R 118.7 257.8	Rwys 3-21, 10R-28L 123.775 251.125	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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CATEGORY	A	B	C	D
LPV DA	330/24 300 (300-½)			
LNAV/VNAV DA	800-2¼ 770 (800-2¼)			800-2½ 770 (800-2½)
LNAV MDA	580/24 550 (600-½)	580/50 550 (600-1)		580/60 550 (600-1¼)
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)

NW-1. 03 JUN 2010 to 01 JUL 2010

WAAS CH 40004 W10A	APP CRS 099°	Rwy Idg 11000 TDZE 24 Apt Elev 30
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RNAV (GPS) RWY 10R
PORTLAND INTL (PDX)

- T** DME/DME RNP-0.3 NA. Baro-VNAV NA below -16°C (4F).
A Inoperative table does not apply to LNAV/VNAV all Cats.
 For inoperative ALSF-2 increase LPV visibility to RVR 6000.

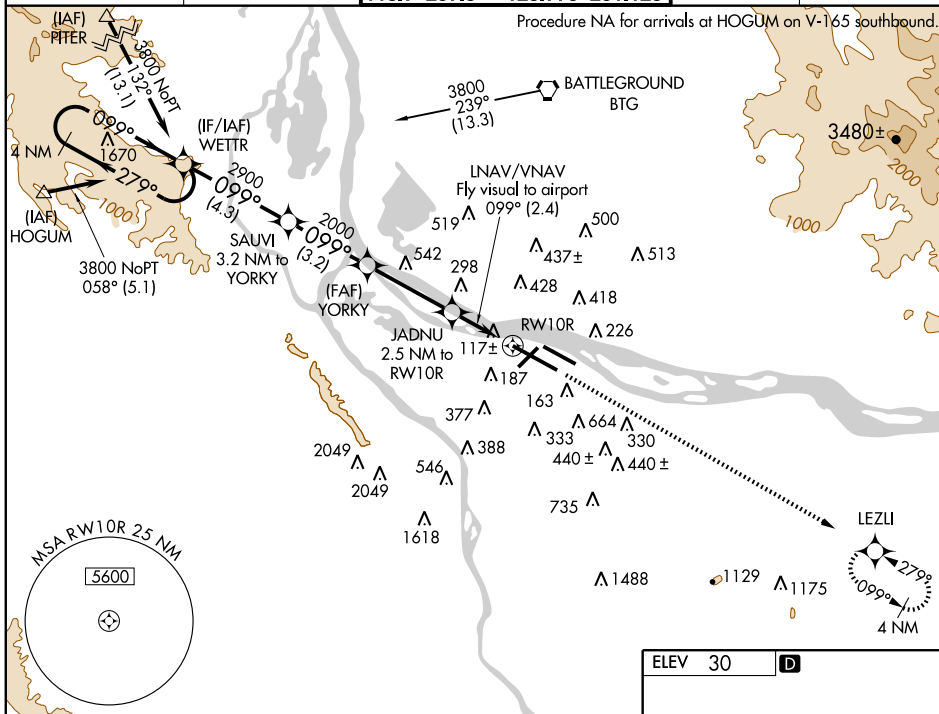
ALSF-2



MISSED APPROACH: Climb to 3500 direct LEZU and hold.

ATIS 128.35 269.9	PORTLAND APP CON * 124.35 299.2	PORTLAND TOWER Rwy 10L-28R Rwy 3-21, 10R-28L 118.7 257.8 123.775 251.125		GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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Procedure NA for arrivals at HOGUM on V-165 southbound.



NW-1. 03 JUN 2010 to 01 JUL 2010

4 NM Holding Pattern

WETTR

SAUVI 3.2 NM to YORKY

YORKY

JADNU 2.5 NM to RW10R

3500

LEZLI

3800 ← 279°

099° →

099°

2900

GS 3.00° TCH 53

2000

860

1.5 NM to RW10R

RW10R

1.5 NM to RW10R

LNNAV/ VNAV Fly Visual 099° 2.4 NM

*LNNAV only

VGS1 and RNAV glidepath not coincident.

4.3 NM

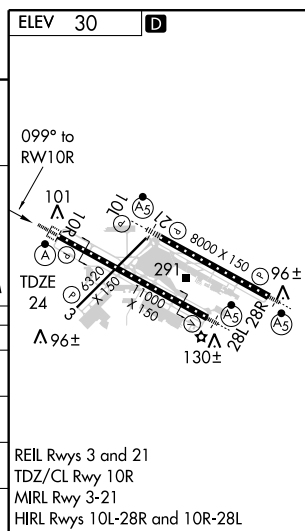
3.2 NM

3.4 NM

1 NM

1.5 NM

CATEGORY	A	B	C	D
LPV DA	390/40 366 (400-34)			
LNAV/VNAV DA	660-2 636 (700-2)			
LNAV MDA	540/24 516 (600-½)	540/50 516 (600-1)	540/60 516 (600-1¼)	
CIRCLING	720-5 690 (700-5)	740-5 710 (800-5)	1020-5 990 (1000-5)	



▼

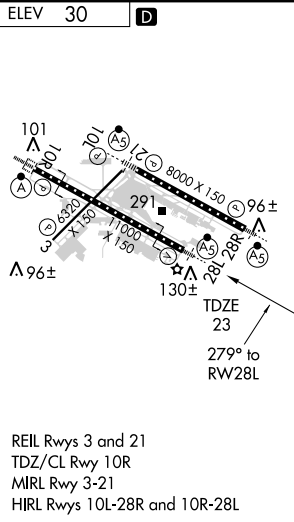
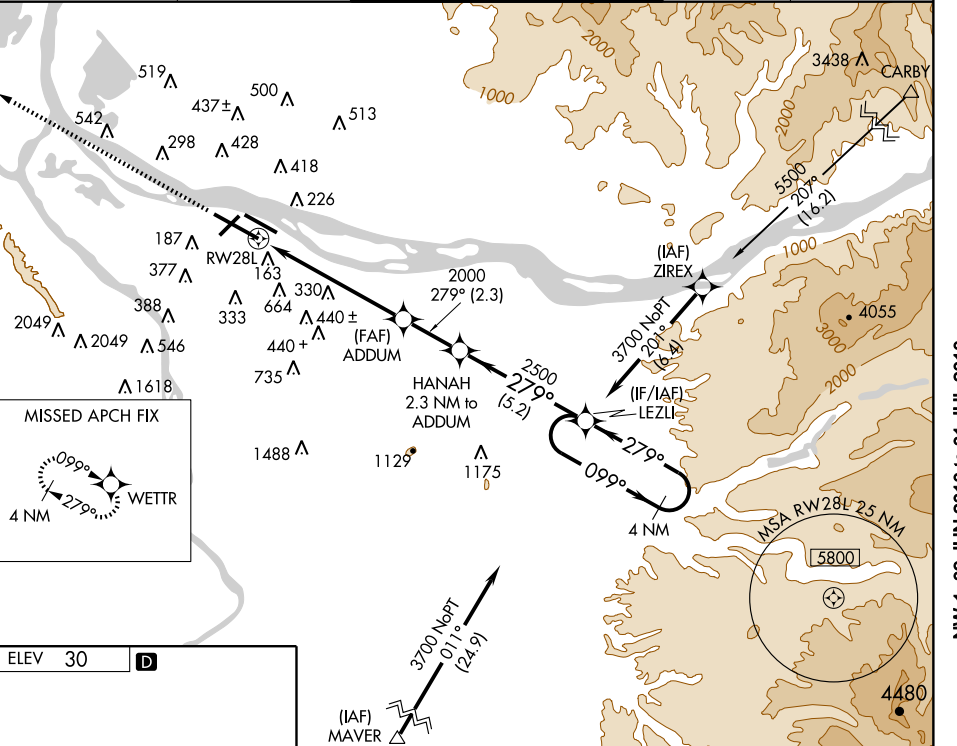
▲

DME/DME RNP-0.3 NA.

MALSR

MISSED APPROACH: Climb to 3800 direct WETTR and hold.

ATIS 128.35 269.9	PORTLAND APP CON* 124.35 299.2	PORTLAND TOWER Rwy 10L-28R 118.7 257.8	Rwys 3-21, 10R-28L 123.775 251.125	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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3800 WETTR		VGSi and RNAV glidepath not coincident.		4 NM Holding Pattern	
*LNAV only		ADDUM		LEZLI	
*1.8 NM to RW28L		HANAH 2.3 NM to ADDUM		099° → 3700	
RW28L		2000		← 279°	
1.8		4.1 NM		2500	
2.3 NM		5.2 NM		GS 3.00°	
CATEGORY		A		B	
LPV DA		340/24 317 (400-1/2)		C	
LNAV MDA		660/24 637 (700-1/2)		D	
CIRCLING		720-1 1/2 690 (700-1 1/2)		660/60 637 (700-1 1/4)	
		740-1 1/2 710 (800-1 1/2)		660-1 1/2 637 (700-1 1/2)	
		740-2 710 (800-2)		1020-3 990 (1000-3)	

WAAS CH 60905 W28A	APP CRS 279°	Rwy Idg TDZE Apt Elev	8000 30 30
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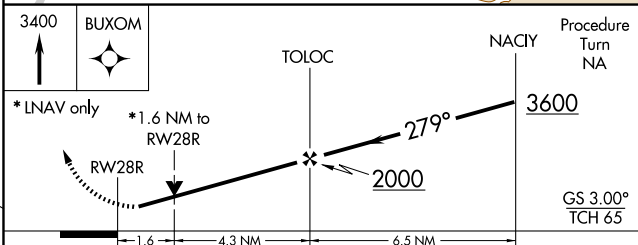
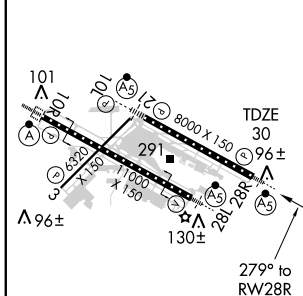
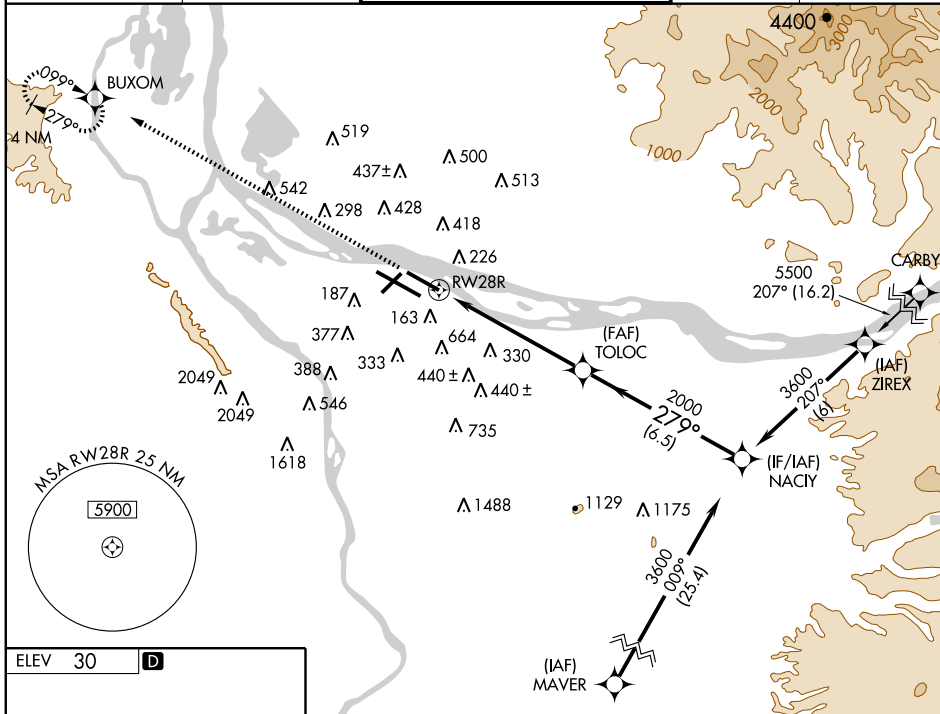
RNAV (GPS) RWY 28R
PORTLAND INTL (PDX)

T DME/DME RNP-0.3 NA. Baro-VNAV NA below -16°C (4°F).
A For inoperative MALSR increase LNAV Cat A and B visibility to RVR 5000.
 For inoperative MALSR increase LPV visibility to RVR 5000 all Cats.

MALSR

MISSED APPROACH: Climb to 3400 direct BUXOM and hold.

ATIS 128.35 269.9	PORTLAND APP CON * 124.35 299.2	PORTLAND TOWER Rwy 10L-28R Rwy 3-21, 10R-28L 118.7 257.8 123.775 251.125		GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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CATEGORY	A	B	C	D
LPV DA	320/40 290 (300-¾)			
RNAV/ VNAV DA	540/60 510 (600-1¼)			
RNAV MDA	600/40 570 (600-¾)		600/50 570 (600-1)	600/60 570 (600-1¼)
CIRCLING	720-1¼ 690 (700-1¾)	740-1¼ 710 (800-1¾)	740-2 710 (800-2)	1020-3 990 (1000-3)

REIL Rwy 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwy 10L-28R and 10R-28L

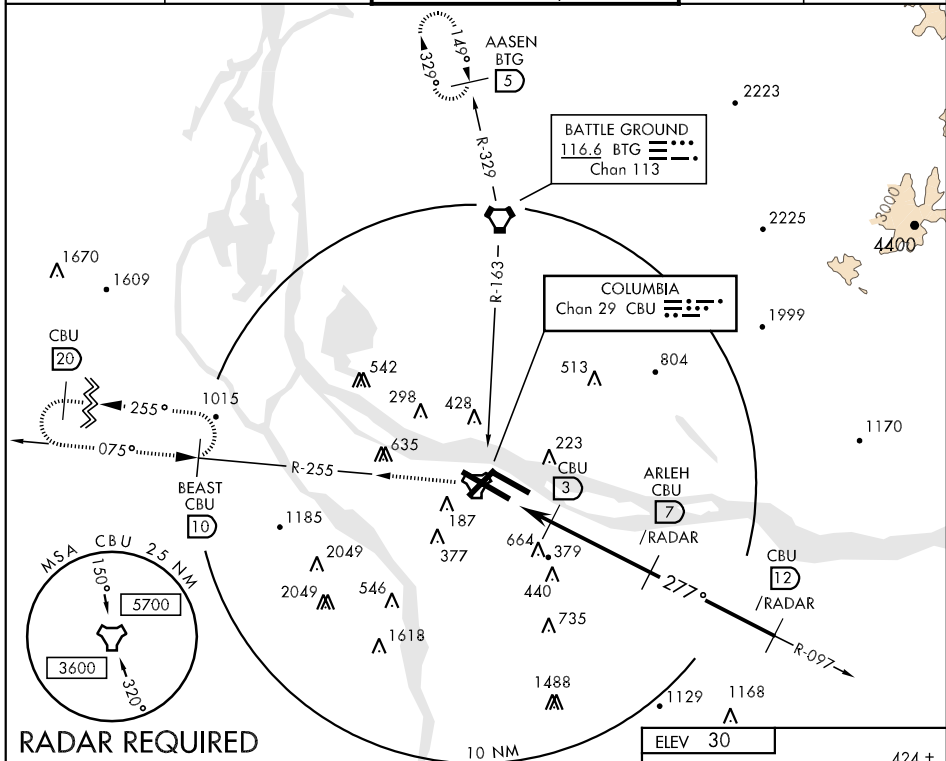
TACAN CBU Chan 29	APCH CRS 277°	Rwy Idg 11,000 TDZE 23 Arpt Elev 30
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AL-330 [USAF]

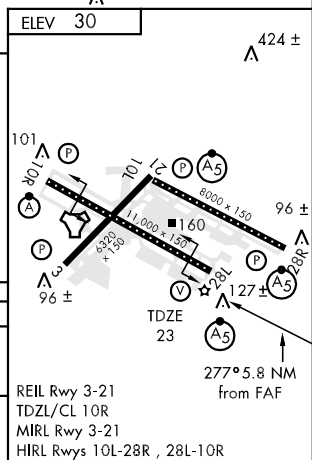
PORTLAND INTL (KPDY)

						MISSED APPROACH: Climbing left turn to 4000 via CBU R-255 to BEAST INT/CBU 10 DME and hold, or when directed by ATC climb to 4000 via BTG R-163 to BTG VORTAC then via BTG R-329 to AASEN INT and hold.		
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ARR 128.35	ATIS 120.625	DEP 269.9	PORTLAND APP CON 100°279° 118.1 284.6 280°099° 124.35 299.2	PORTLAND TOWER 118.7 257.8 Rwy 10L-28R 123.775 251.125 Rwy 3-21, 10R-28L	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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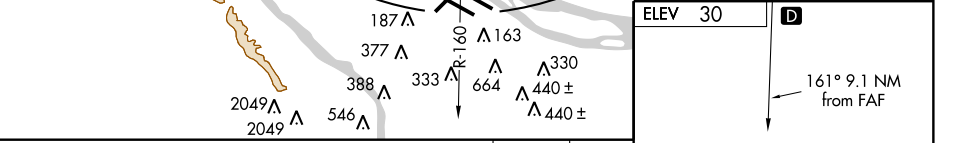
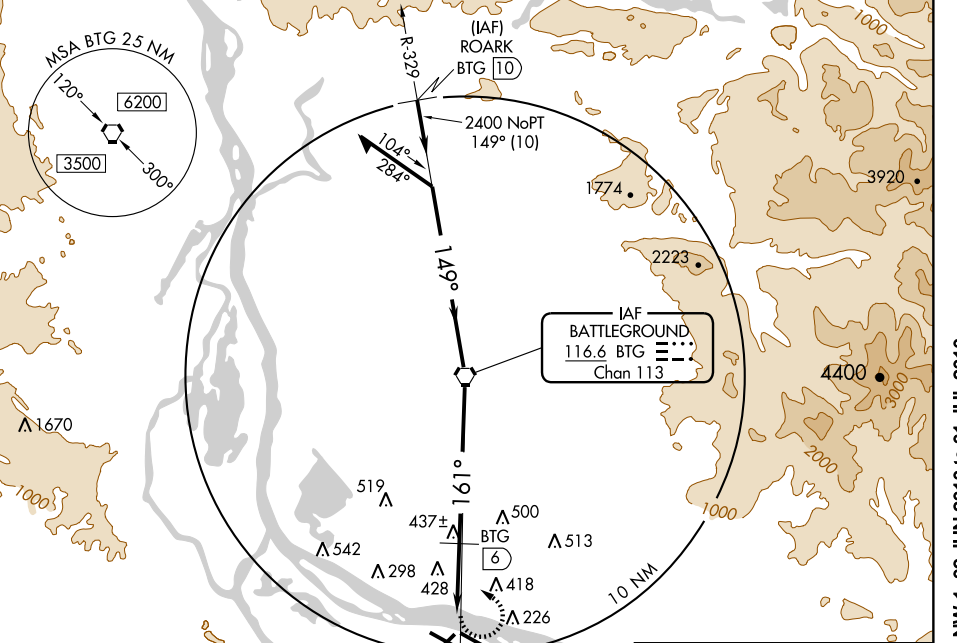
RADAR REQUIRED					
CATEGORY	A	B	C	D	E
S-28L	600/50 577 (600-1)		600-1½ 577 (600-½)	600-1¾ 577 (600-¼)	600-2 577 (600-2)
CIRCLING	720-1 690 (700-1)		740-2 710 (800-2)	980-3 950 (1000-3)	1060-3 1030 (1100-3)



▼
▲

MISSED APPROACH: Climbing left turn to 4000
via BTG R-160 to BTG VORTAC.

ATIS 128.35 269.9	PORTLAND APP CON ★ 124.35 299.2	PORTLAND TOWER Rwy 10L-28R 118.7 257.8 Rwys 3-21, 10R-28L 123.775 251.125	GND CON 121.9 348.6	CLNC DEL 120.125 318.1
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REIL Rwys 3 and 21 TDZ/CL Rwy 10R MIRL Rwy 3-21 HIRL Rwys 10L-28R and 10R-28L			
FAF to MAP 9.1 NM			
Knots			
Min:Sec			
DME MINIMA			
CIRCLING			

NW-1, 03 JUN 2010 to 01 JUL 2010

VOR/DME PDX 111.8 Chan 55	APP CRS 215°	Rwy Idg 6320 TDZE 27 Apt Elev 30
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VOR/DME RWY 21
PORTLAND INTL (PDX)

T	Visibility reduction by helicopters NA.
A	

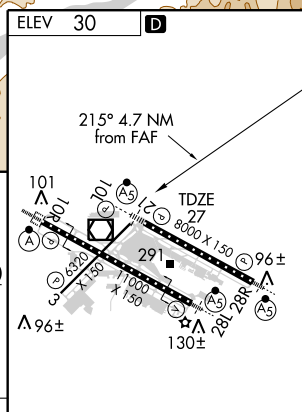
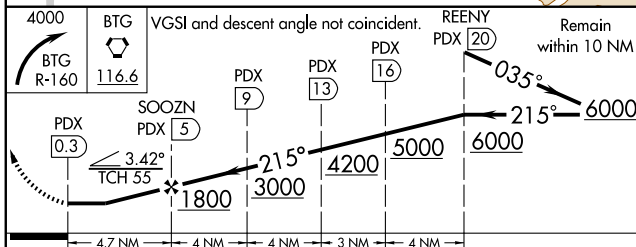
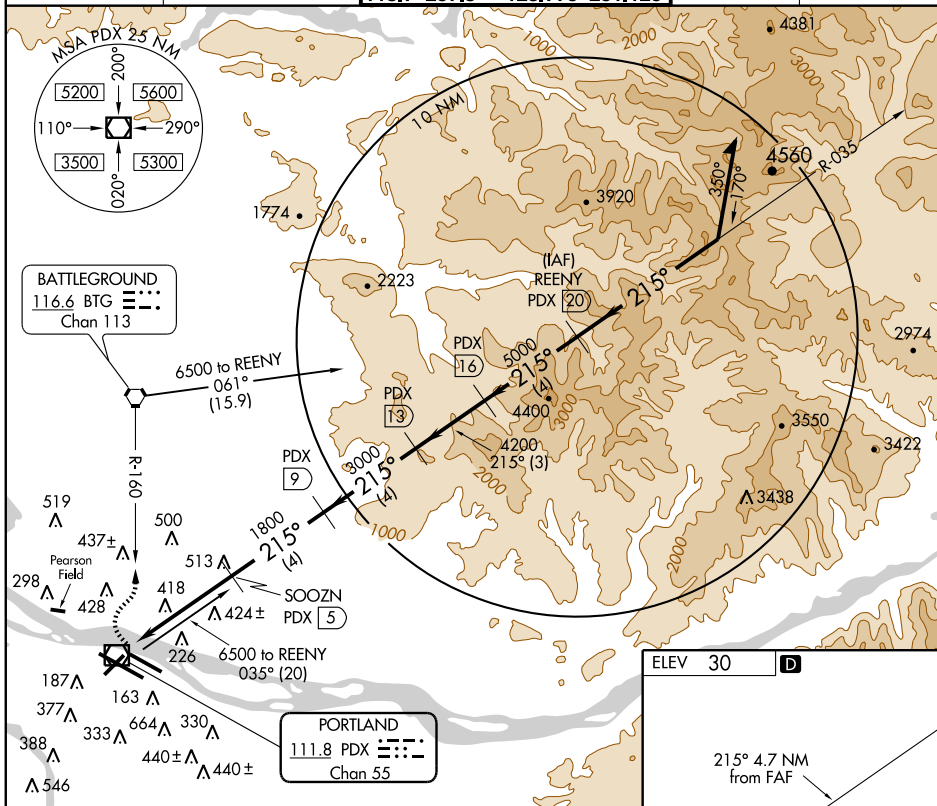
MISSED APPROACH: Climbing right turn to 4000
via BTG R-160 to BTG VORTAC.

ATIS
128.35 269.9

PORTLAND APP CON ★
124.35 299.2

PORTLAND TOWER			
Rwy 10L-28R		Rwys 3-21, 10R-28L	
118.7	257.8	123.775	251.125

GND CON
121.9 348.6

CLNC DEL
120.125 318.1

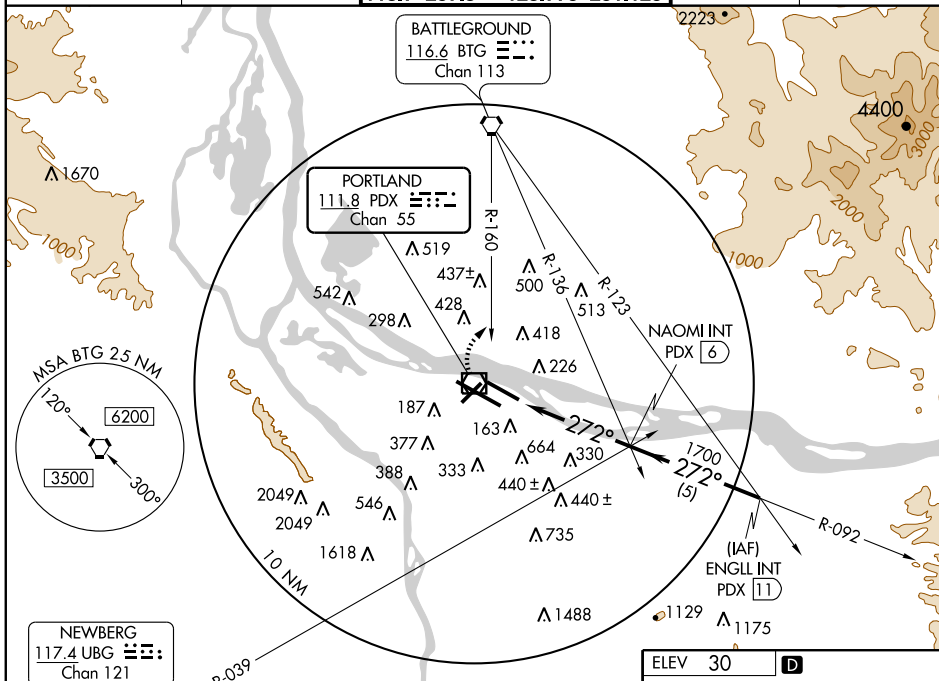
CATEGORY	A	B	C	D
S-21	720-1 693 (700-1)		720-2 693 (700-2)	720-2¼ 693 (700-2¼)
CIRCLING	720-1 690 (700-1)	740-1 710 (800-1)	740-2 710 (800-2)	1020-3 990 (1000-3)

REIL Rwy 3 and 21
TDZ/CL Rwy 10R
MIRL Rwy 3-21
HIRL Rwy 10L-28R and 10R-28L

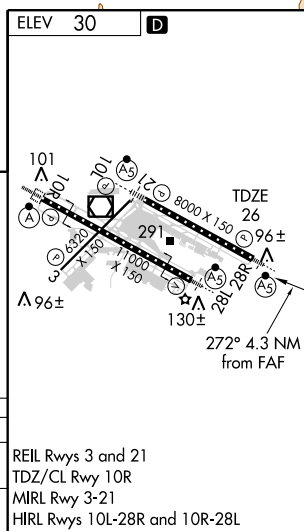
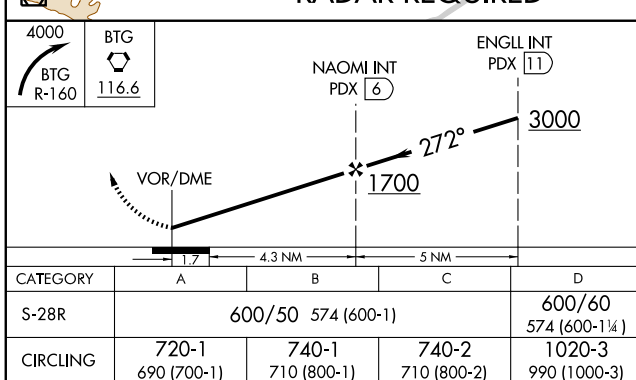
VOR/DME PDX 111.8 Chan 55	APP CRS 272°	Rwy Idg 8000 TDZE 26 Apt Elev 30
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VOR RWY 28R
PORTLAND INTL (PDX)

<div><div></div><div></div></div> Inoperative table applies only to Cat. C and D.		<div>MALSR<div><div>A5</div><div></div></div></div>		MISSED APPROACH: Climbing right turn to 4000 via BTG R-160 to BTG VORTAC.					
ATIS 128.35 269.9		PORTLAND APP CON ★ 124.35 299.2		<div>PORTLAND TOWER</div> <div><div>Rwy 10L-28R 118.7 257.8</div><div>Rwys 3-21, 10R-28L 123.775 251.125</div></div>		GND CON 121.9 348.6		CLNC DEL 120.125 318.1	

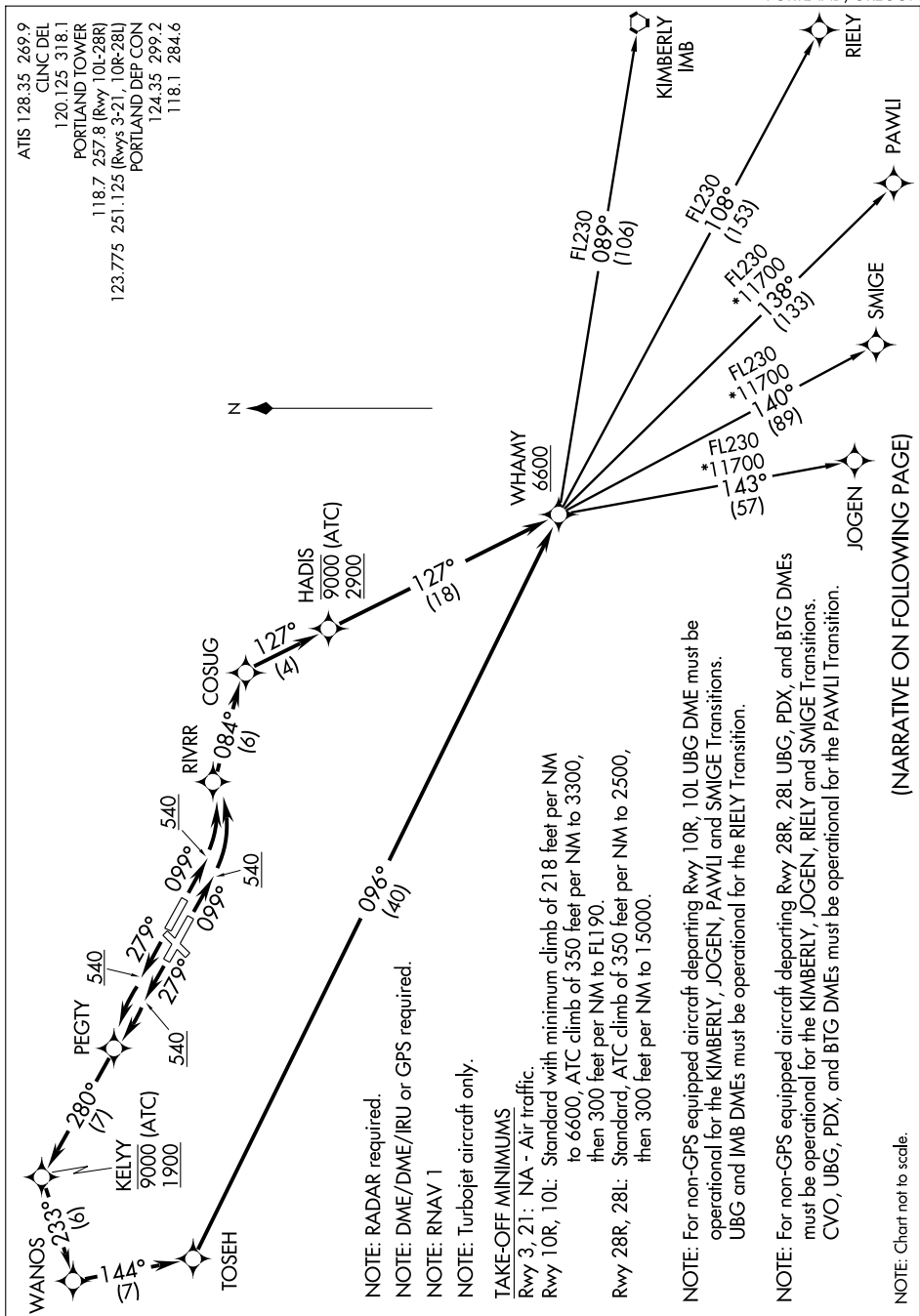


RADAR REQUIRED



WHAMY ONE DEPARTURE (RNAV)

SL-330 (FAA)

PORTLAND INTL (PDX)
PORTLAND, OREGON



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10R: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 127° track to cross HADIS at or below 9000 (ATC)/2900, then via 127° track to WHAMY, cross WHAMY at or above 6600, thence....

TAKE-OFF RUNWAY 10L: Climb heading 099° to 540 feet, then left turn direct RIVRR, and via 084° track to COSUG, and via 127° track to cross HADIS at or below 9000 (ATC)/2900, then via 127° track to WHAMY, cross WHAMY at or above 6600, thence....

TAKE-OFF RUNWAY 28R: Climb heading 279° to 540 feet, then left turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 096° track to WHAMY, cross WHAMY at or above 6600, thence....

TAKE-OFF RUNWAY 28L: Climb heading 279° to 540 feet, then right turn direct PEGTY, and via 280° track to cross KELYY at or below 9000 (ATC)/1900, then via track 233° to WANOS, and via 144° track to TOSEH, and via 096° track to WHAMY, cross WHAMY at or above 6600, thence....

....via (Transition), maintain assigned altitude, expect filed altitude 10 minutes after departure.

JOGEN TRANSITION (WHAMY1.JOGEN)

KIMBERLY TRANSITION (WHAMY1.IMB)

PAWLI TRANSITION (WHAMY1.PAWLI)

RIELY TRANSITION (WHAMY1.RIELY)

SMIGE TRANSITION (WHAMY1.SMIGE)

TAKE-OFF OBSTACLE NOTES

Rwy 10L: Rising terrain and vehicle on road beginning 7' from DER, 376' left of centerline, up to 17' AGL/60' MSL.

Rwy 10R: Pole 1996' from DER, 758' right of centerline, 54' AGL/74' MSL

Rwy 28L: Trees 1873' from DER, 836' left of centerline, 50' AGL/88' MSL.

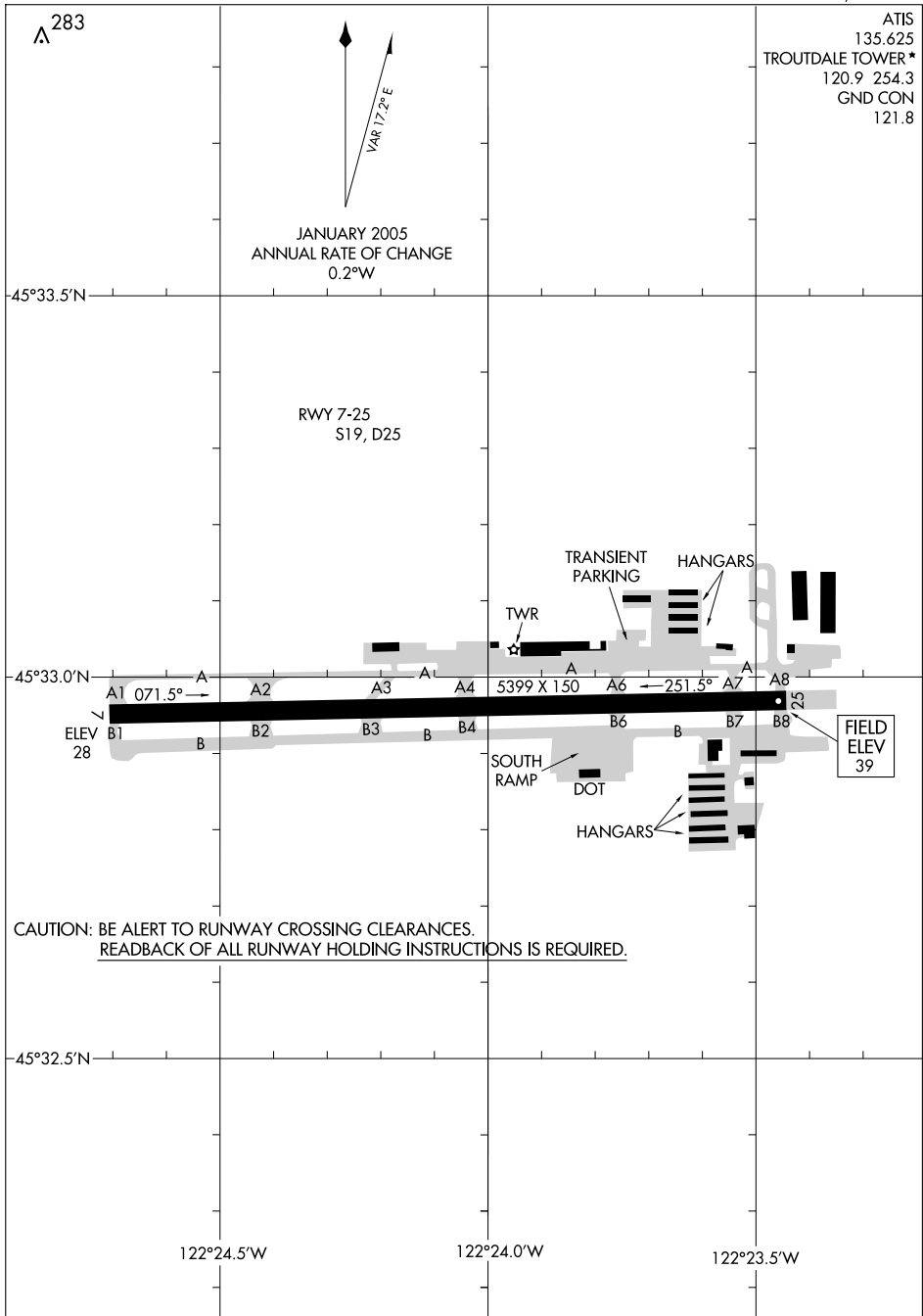
Rwy 28R: Multiple signs, poles, and vehicle on road beginning 876' from DER, 654' right of centerline, up to 27' AGL/69' MSL.

AIRPORT DIAGRAM

AL-649 (FAA)

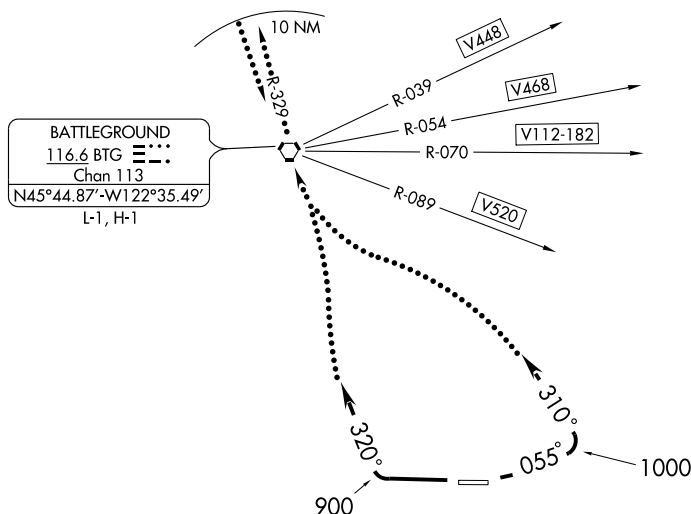
PORTLAND-TROUTDALE (TTD)

PORTLAND, OREGON



NW-1, 03 JUN 2010 to 01 JUL 2010

CTAF 120.9



NOTE: Rwy 7 requires a minimum climb gradient of 420' per NM to 4000'.

Rwy 25 requires a minimum climb of 310' per NM to 2000'.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 7: Climb via heading 055° to 1000', then turn left to 310° or as assigned.

TAKE-OFF RUNWAY 25: Climb runway heading to 900', then turn right to 320° or as assigned.

LOST COMMUNICATIONS: Proceed direct to BTG VORTAC. Continue climb on the BTG R-329 within 10 NM to cross BTG VORTAC at or above: NE-bound V448, 9400'; NE-bound V468, 4500'; E-bound V112, V182, V520, 4700'; for non airways BTG R-355 CW BTG R-120, 8800'; all others, 2500'.

ALTERNATE LOST COMMUNICATIONS PROCEDURE: When BTG VORTAC is out of service: if no contact with ATC leaving 3000', continue climb to assigned altitude and proceed direct to UBG VOR/DME, thence via assigned route.

HELNS FOUR ARRIVAL

ST-330 (FAA)

PORTLAND, OREGON

PORTLAND APP CON

124.35 299.2

PORTLAND INTL ATIS

128.35 269.9

PORTLAND-HILLSBORO ATIS

127.65

SEATTLE

116.8 SEA

Chan 115

N47°26.12'-W122°18.58'

L-1, H-1

10000
+9700
161°
(71)HELNS
N46°15.42'
W122°18.58'10000
180°
(111)7000
(22)

BATTLE GROUND

116.6 BTG

Chan 113

N45°44.87'-W122°35.49'

KRATR

N46° 05.39' - W122° 24.17'

NOTE: Maintain the last assigned altitude. Upon receipt of "Descend via the HELNS4": . . .

PROP/TURBOPROP: Cross at and maintain 10,000'.

TURBOJET: Cross at and maintain 12,000' at 300 KIAS or less.

PORTLAND
INTLPORTLAND-
HILLSBORO

PORTLAND-TROUTDALE

AURORA
STATE

NOTE: Chart not to scale.

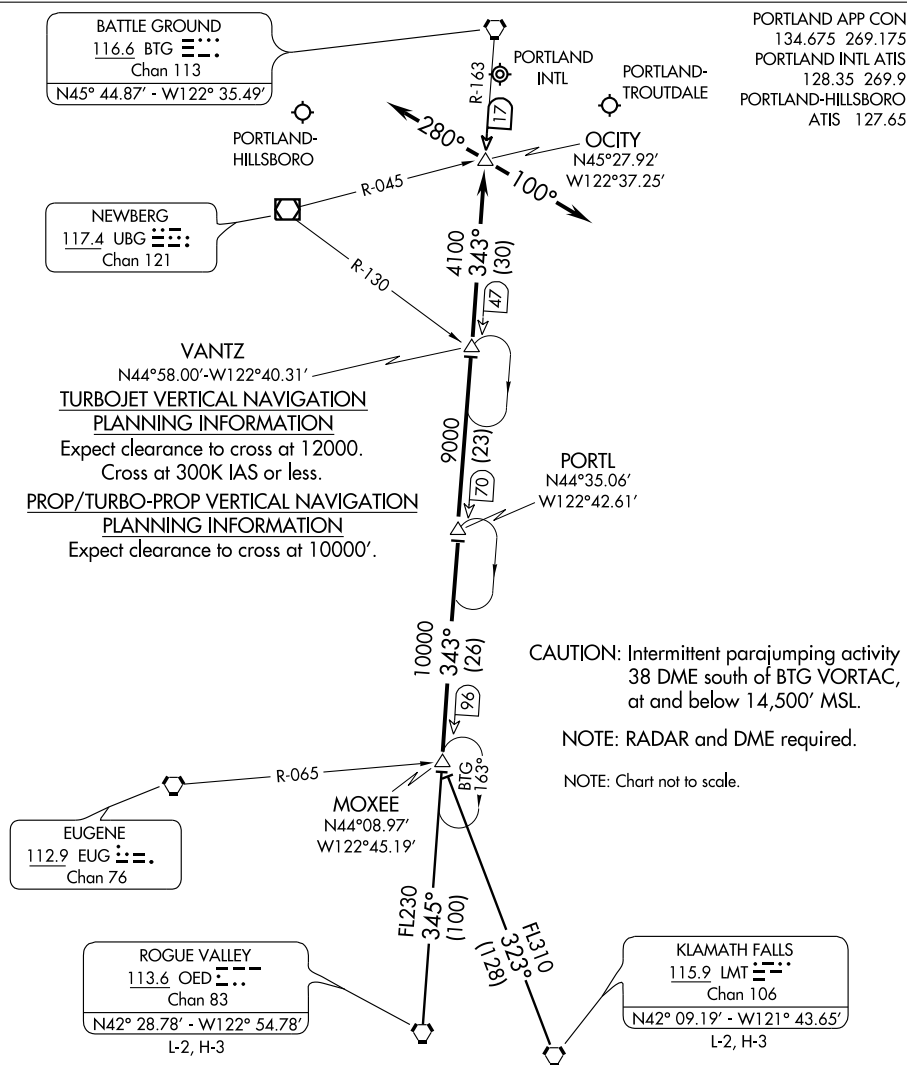
NOTE: DME and RADAR required.

SEATTLE TRANSITION (SEA.HELNS4): From over SEA VORTAC via SEA R-161 to HELNS DME FIX. Thence....

.... From over HELNS DME FIX via BTG R-360 to BTG VORTAC. Thence....

LANDING EAST: Depart BTG VORTAC heading 280° for vectors to final approach course.

LANDING WEST: Depart BTG VORTAC heading 110° for vectors to final approach course.



KLAMATH FALLS TRANSITION (LMT.MOXEE6): From over LMT VORTAC via LMT R-323 to MOXEE INT. Thence . . .

ROGUE VALLEY TRANSITION (OED.MOXEE6): From over OED VORTAC via OED R-345 to MOXEE INT. Thence . . .

. . . From over MOXEE INT via BTG R-163 to OCITY INT. Thence via:

Landing East - Depart OCITY INT heading 280° for vectors to final approach course.

Landing West - Depart OCITY INT heading 100° for vectors to final approach course.

LOST COMMUNICATIONS: After OCITY INT, proceed direct BTG VORTAC.

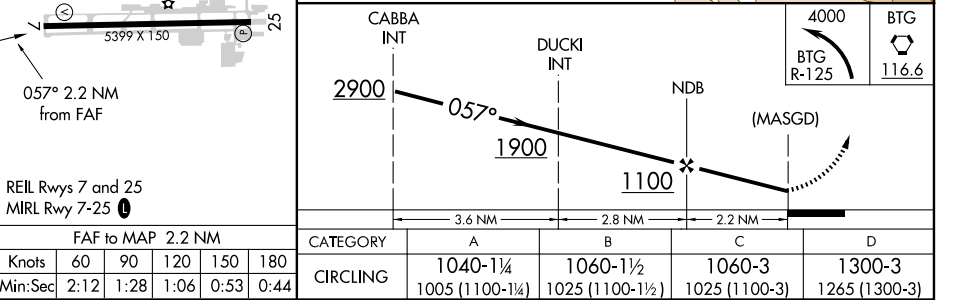
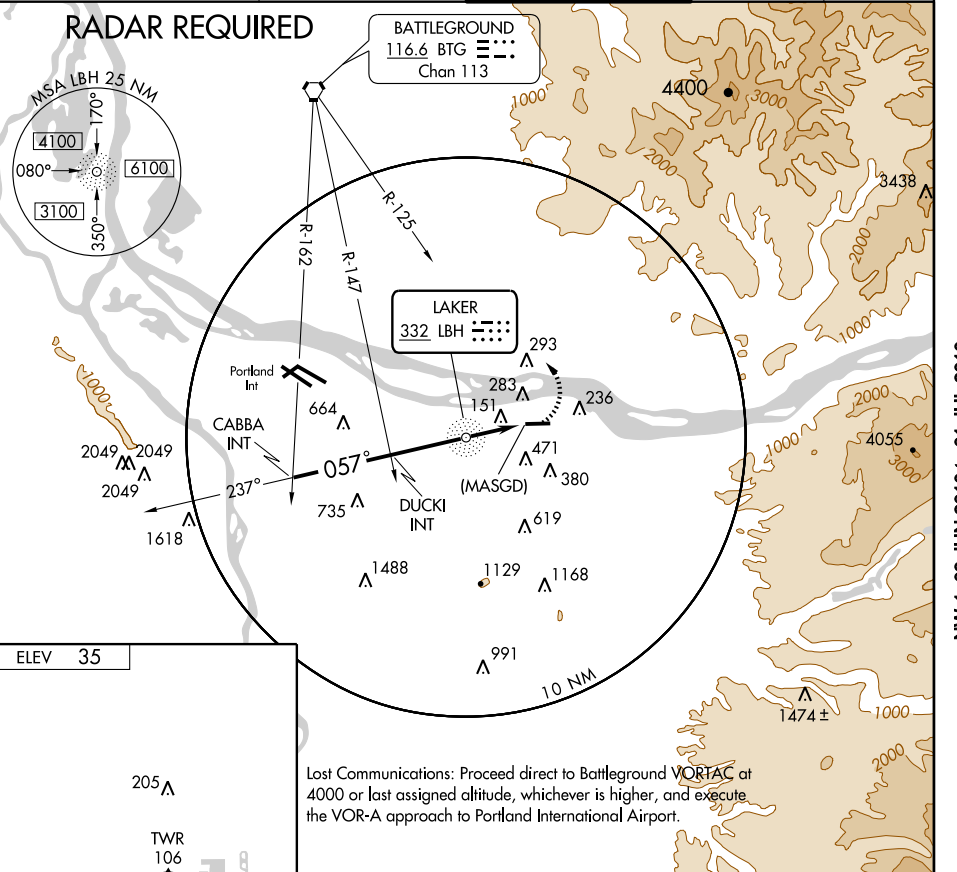
▽

▲

If local altimeter setting not received procedure not authorized.

MISSED APPROACH: Climbing left turn to 4000 via BTG R-125 to BTG VORTAC.

ATIS 135.625	PORTLAND APP CON 124.35 299.2	TROUTDALE TOWER ★ 120.9 (CTAF) 254.3	GND CON 121.8	UNICOM 122.95
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DESCHUTES ONE DEPARTURE (RNAV)

SEATTLE CENTER
128.15 257.75
UNICOM 122.8 (CTAF)

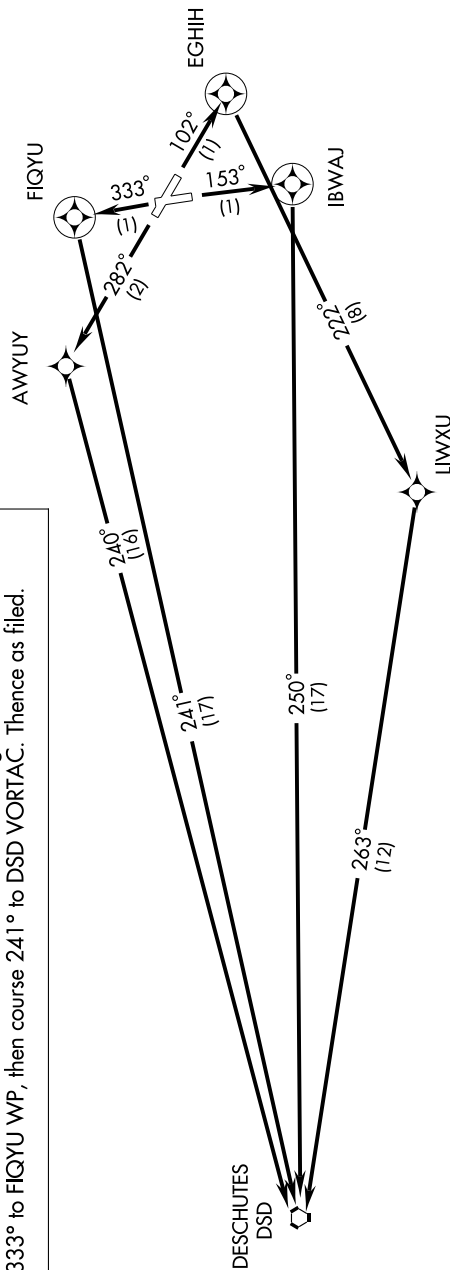
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 10: Climb to 9000 (or ATC assigned altitude) via course 102° to EGHIIH WP, then course 222° to LIWXU WP, then course 263° to DSD VORTAC. Thence as filed.

TAKE-OFF RUNWAY 15: Climb to 9000 (or ATC assigned altitude) via course 153° to IBWAJ WP, then course 250° to DSD VORTAC. Thence as filed.

TAKE-OFF RUNWAY 28: Climb to 9000 (or ATC assigned altitude) via course 282° to AWYUY WP, then course 240° to DSD VORTAC. Thence as filed.

TAKE-OFF RUNWAY 33: Climb to 9000 (or ATC assigned altitude) via course 333° to FIQYU WP, then course 241° to DSD VORTAC. Thence as filed.



NOTE: Standard with minimum climb gradient of 400' per NM to 9000', except V25 North requires minimum climb gradient of 400' per NM to 7000'.

NOTE: 1. GPS Required.

2. RNAV 1

NOTE: Chart not to scale.

▼

▲ NA

Use Roberts Field altimeter setting.

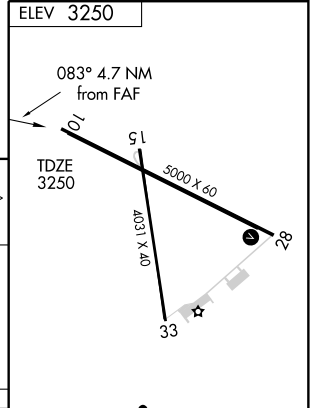
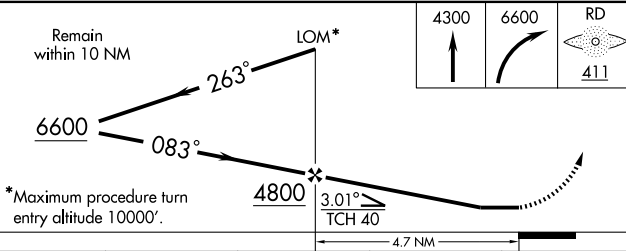
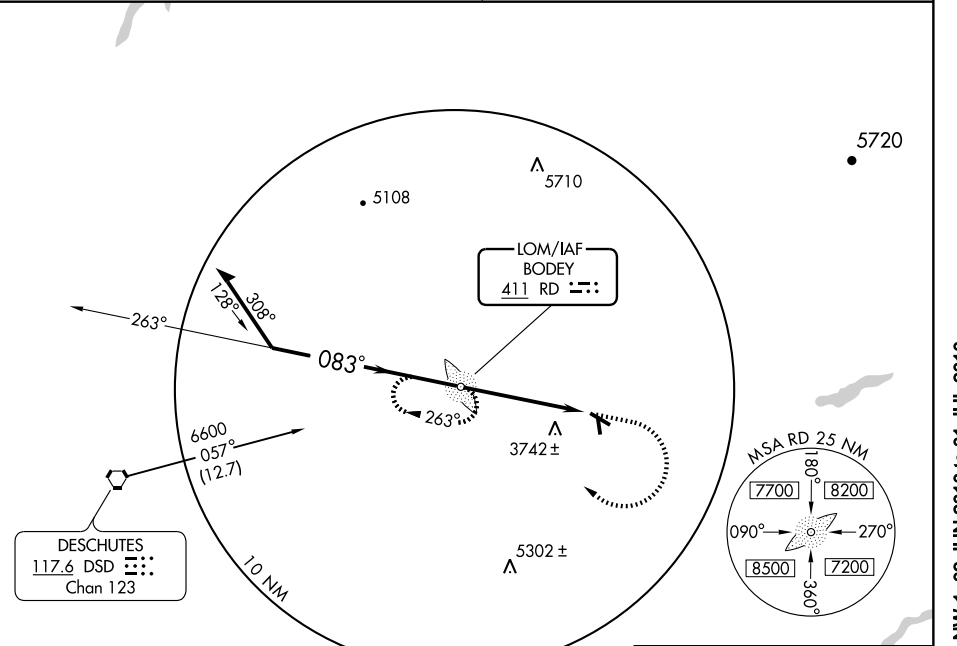
MISSED APPROACH: Climb to 4300 then climbing right turn to 6600 direct RD LOM and hold.

SEATTLE CENTER

128.15 257.75

UNICOM

122.8 (CTAF) 0



CATEGORY	A	B	C	D
S-10	4100-1 850 (900-1)	4100-1¼ 850 (900-1¼)	4100-2½ 850 (900-2½)	4100-2¾ 850 (900-2¾)
CIRCLING	4100-1 850 (900-1)	4100-1¼ 850 (900-1¼)	4100-2½ 850 (900-2½)	4100-2¾ 850 (900-2¾)

MIRL Rwy 10-28 0

LIRL Rwy 15-33 0

FAF to MAP 4.7 NM

Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34

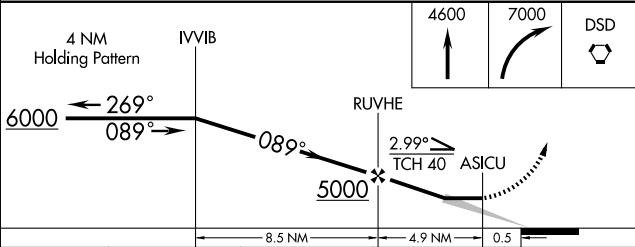
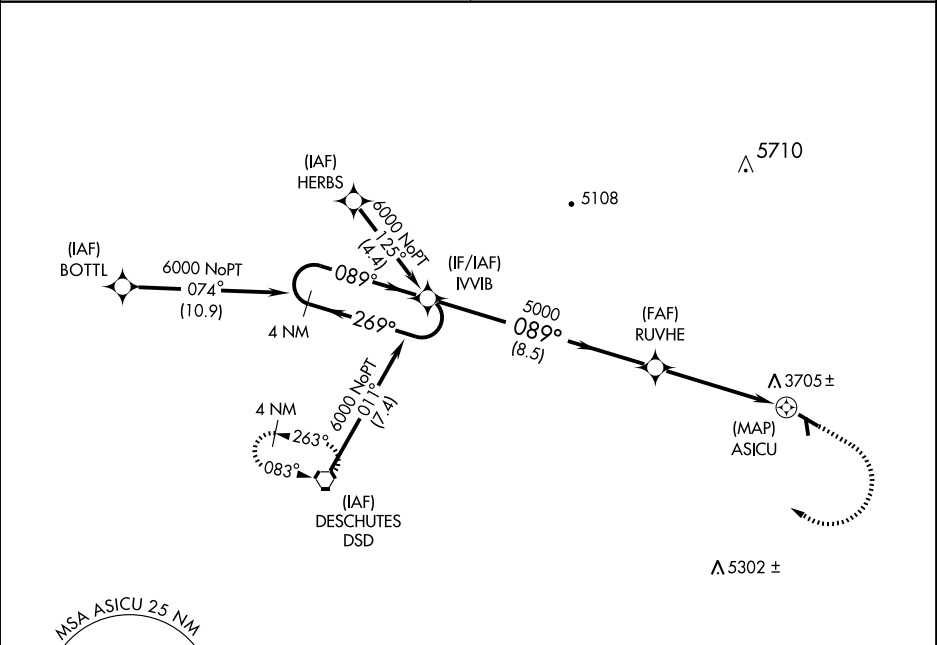
APP CRS 089°	Rwy Idg TDZE Apt Elev 5000 3250 3250
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RNAV (GPS) RWY 10

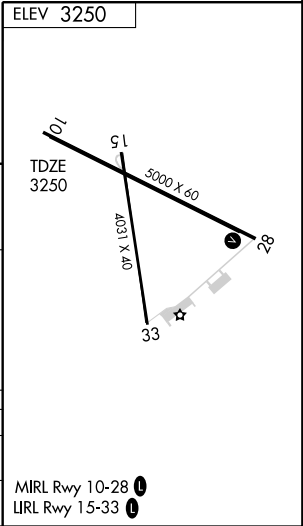
PRINEVILLE (S39)

▼ GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.	MISSED APPROACH: Climb to 4600 then climbing right turn to 7000 direct DSD VORTAC and hold.
▲NA Use Roberts Field altimeter setting.	

SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LNNAV MDA	4020-1 770 (800-1)	4020-1¼ 770 (800-1¼)	4020-2¼ 770 (800-2¼)	4020-2½ 770 (800-2½)
CIRCLING	4060-1 810 (900-1)	4100-1¼ 850 (900-1¼)	4100-2½ 850 (900-2½)	4100-2¾ 850 (900-2¾)



MIRL Rwy 10-28 0
LURL Rwy 15-33 0

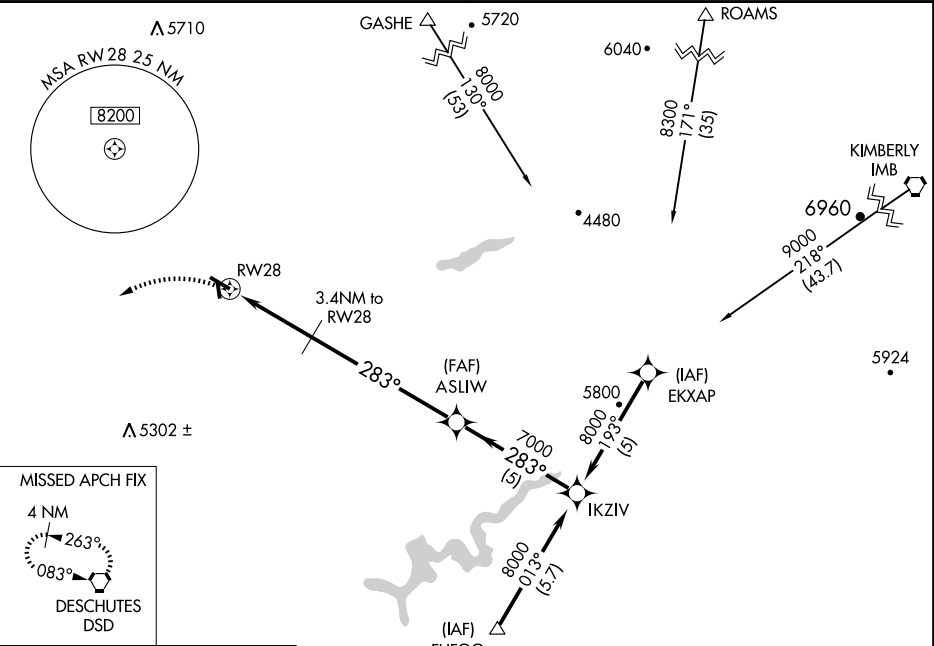
APP CRS 283°	Rwy Idg TDZE Apt Elev	5000 3246 3250
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RNAV (GPS) RWY 28

PRINEVILLE (S39)

GPS or RNP- 0.3 required. DME/DME RNP- 0.3 NA. NA Use Roberts Field altimeter setting.	MISSED APPROACH: Climbing left turn to 7000 direct DSD VORTAC and hold.
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SEATTLE CENTER 128.15 257.75	UNICOM 122.8 (CTAF)
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MISSED APCH FIX

4 NM

263°

083°

DESCHUTES DSD

ELEV 3250

MIRL Rwy 10-28

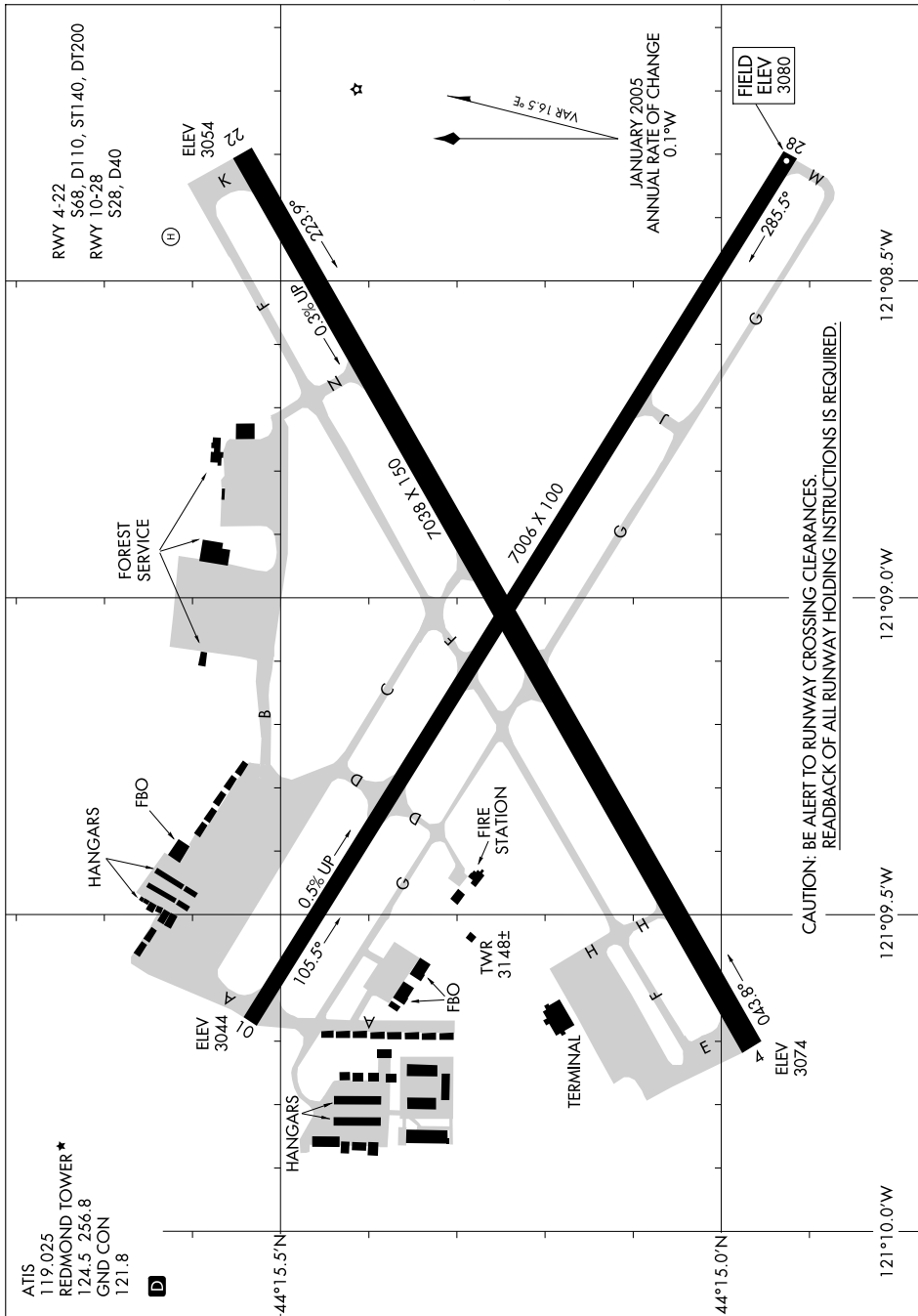
LRL Rwy 15-33

7000		DSD	VGSi and descent angles not coincident.		IKZIV
			3.4 NM to RW28		8000
			ASLIW		Procedure Turn NA
RW28			7000		
3.4 NM			6 NM		5 NM
CATEGORY	A	B	C	D	
LNAV MDA	3840-1	594 (600-1)	3840-1½ 594 (600-1½)	NA	
CIRCLING	4060-1 810 (900-1)	4100-1¼ 850 (900-1¼)	4100-2½ 850 (900-2½)	4100-2¾ 850 (900-2¾)	

AIRPORT DIAGRAM

AL-345 (FAA)

REDMOND/ ROBERTS FIELD (RDM)
REDMOND, OREGON



NW-1. 03 JUN 2010 to 01 JUL 2010

LOC I-RDM	APP CRS	Rwy Idg	7038
109.1	222°	TDZE	3065
		Apt Elev	3080

ILS or LOC RWY 22
REDMOND/ROBERTS FIELD (RDM)

⚠ For inoperative MALS, increase S-ILS 22 Cat. E visibility to ¾.

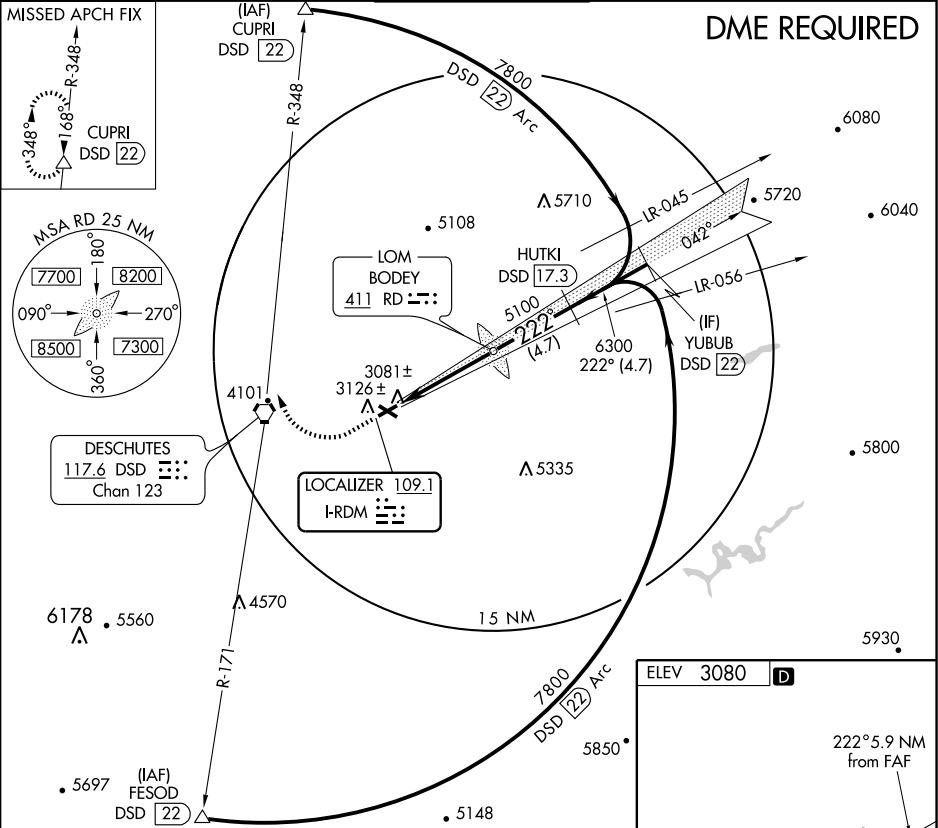
⚠ For inoperative MALS, increase S-LOC 22 Cat. D and E visibility to 1. Autopilot coupled approach NA below 4370.

MALS

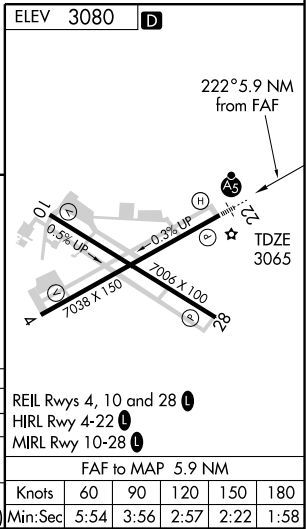
AS

MISSED APPROACH: Climb to 3500 then climbing right turn to 7000 via heading 315° and DSD VORTAC R-348 to CUPRI/DSD 22 DME and hold.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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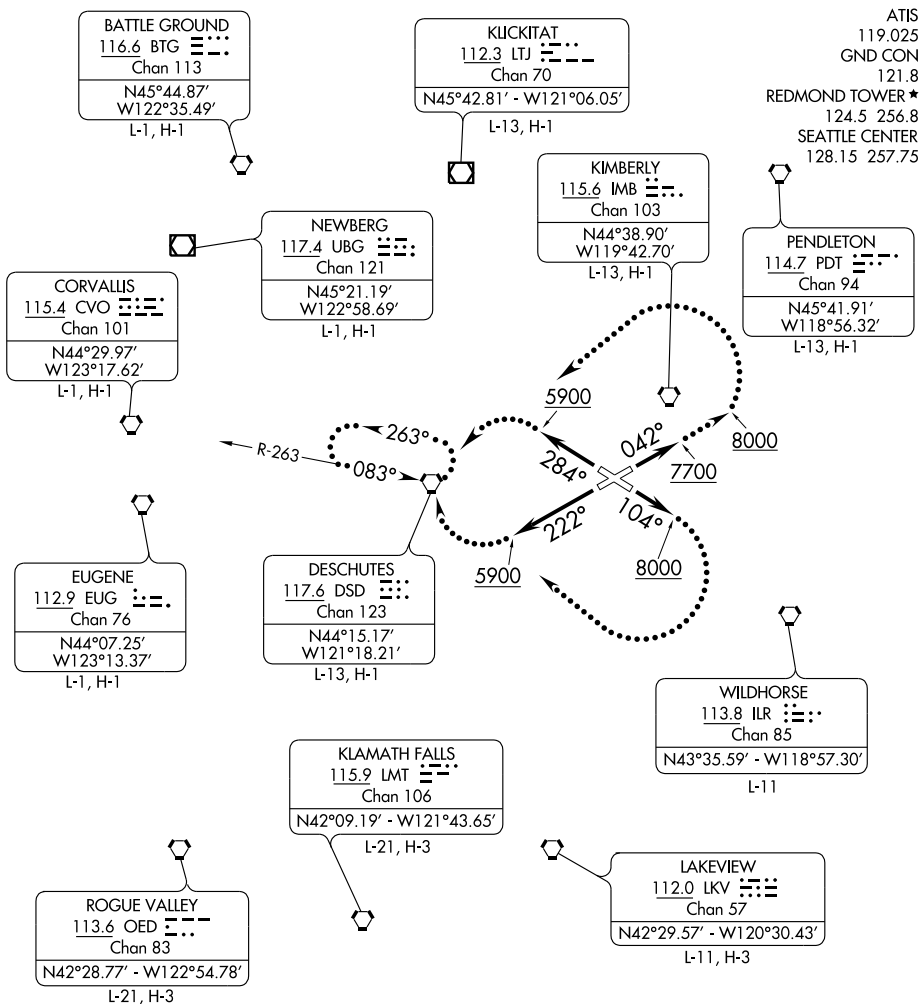


3500 7000 DSD CUPRI VGSI and ILS glidepath not coincident. Procedure	Turn NA
↑ R-348 315°	LOM
DSD 7.1	HUTKI DSD 17.3
5017	YUBUB DSD 22
5100	GS 3.00° TCH 47
5.9 NM	4.7 NM
4.7 NM	
CATEGORY	A B C D E
S-ILS 22	3265-½ 200 (200-½)
S-LOC 22	3340-½ 275 (300-½) 3340-¾ 275 (300-¾)
CIRCLING	3520-1 440 (500-1) 3540-1 460 (500-1) 3540-1½ 460 (500-1½) 3780-2¼ 700 (700-2¼) 3780-2½ 700 (700-2½)



REDMOND ONE DEPARTURE

REDMOND, OREGON



NW-1, 03 JUN 2010 to 01 JUL 2010

TAKE-OFF OBSTACLE

Rwy 28: Numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL.
Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

TAKE-OFF MINIMUMS

Rwy 4: Standard with minimum obstacle climb of 371' per NM to 13000, ATC climb of 465' per NM to 7700.
Rwy 10: Standard with minimum climb of 406' per NM to 13000.
Rwy 22: Standard with minimum obstacle climb of 356' per NM to 13000, ATC climb of 406' per NM to 5900.
Rwy 28: Standard with minimum climb of 358' per NM to 13000.

NOTE: RADAR required.

NOTE: Chart not to scale.

(NARRATIVE ON THE FOLLOWING PAGE)

REDMOND ONE DEPARTURE

REDMOND, OREGON



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 4: Climb heading 042° or ATC assigned heading to 7700 for radar vectors to assigned route/fix, Thence. . . .

TAKE-OFF RUNWAY 10: Climb heading 104° or ATC assigned heading to 8000 for radar vectors to assigned route/fix, Thence. . . .

TAKE-OFF RUNWAY 22: Climb heading 222° or ATC assigned heading to 5900 for radar vectors to assigned route/fix, Thence. . . .

TAKE-OFF RUNWAY 28: Climb heading 284° or ATC assigned heading to 5900 for radar vectors to assigned route/fix, Thence. . . .

. . . . Maintain 14000 or assigned altitude, expect filed altitude/flight level five minutes after departure.

LOST COMMUNICATIONS: If no contact with Seattle Center after reaching 6000, continue climb to assigned altitude and:

TAKE-OFF RUNWAY 4: Continue climb to 8000, then climbing left turn direct DSD VORTAC. . . .

TAKE-OFF RUNWAY 10: Climbing right turn direct DSD VORTAC. . . .

TAKE-OFF RUNWAY 22: Climbing right turn direct DSD VORTAC. . . .

TAKE-OFF RUNWAY 28: Climbing left turn direct DSD VORTAC. . . .

. . . . Climb-in-hold at DSD VORTAC (hold W, LT, 083° inbound) to cross DSD VORTAC at or above the MEA before proceeding on course.

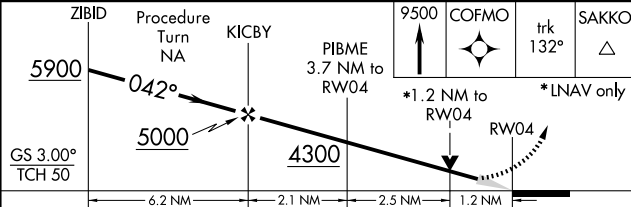
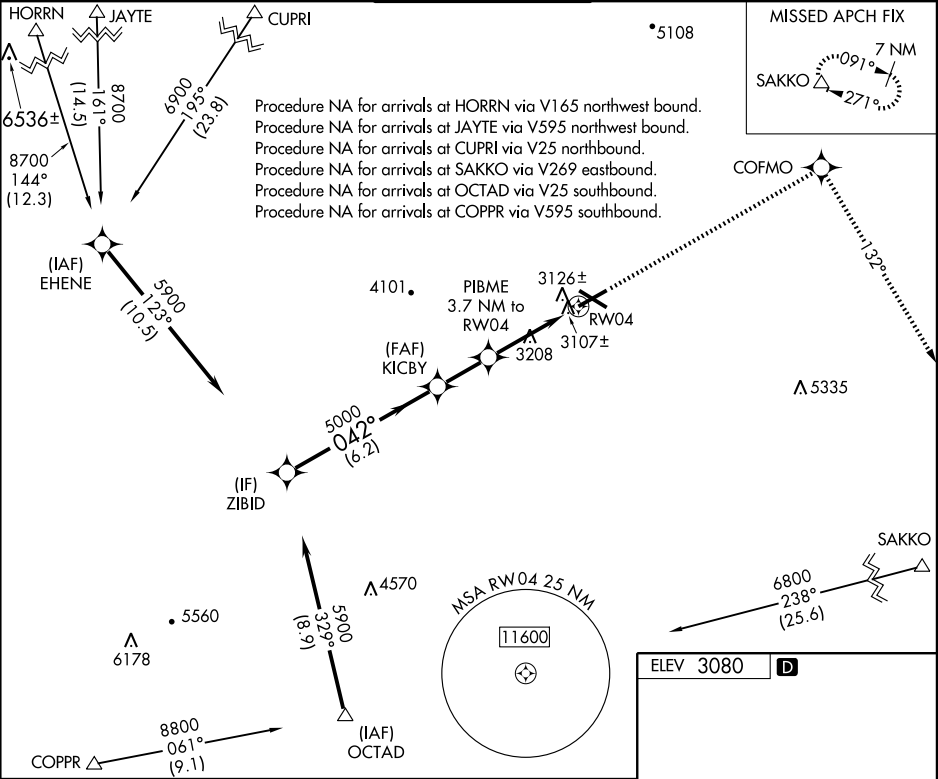
WAAS CH 70514 W04A	APP CRS 042°	Rwy Idg TDZE Apt Elev 7038 3075 3080
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RNAV (GPS) RWY 4
REDMOND/ROBERTS FIELD (RDM)

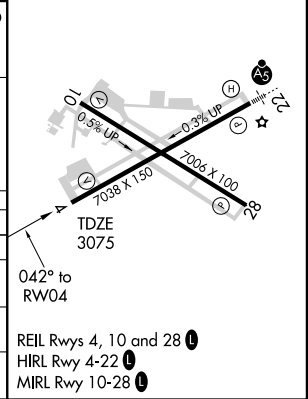
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 43°C (109°F). DME/DME RNP-0.3 NA. When local altimeter setting not received procedure NA.

MISSED APPROACH: Climb to 9500 direct COFMO and via track 132° to SAKKO and hold, continue climb-in-hold to 9500.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER ★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	3325-3/4	250 (300-3/4)		
LNAV/VNAV DA	3367-1	292 (300-1)		
LNAV MDA	3520-1	445 (500-1)	3520-1 1/4 445 (500-1 1/4)	3520-1 1/2 445 (500-1 1/2)
CIRCLING	3520-1 440 (500-1)	3540-1 460 (500-1)	3540-1 1/2 460 (500-1 1/2)	3640-2 560 (600-1)



WAAS CH 53514 W10A	APP CRS 104°	Rwy Idg TDZE Apt Elev 7006 3067 3080
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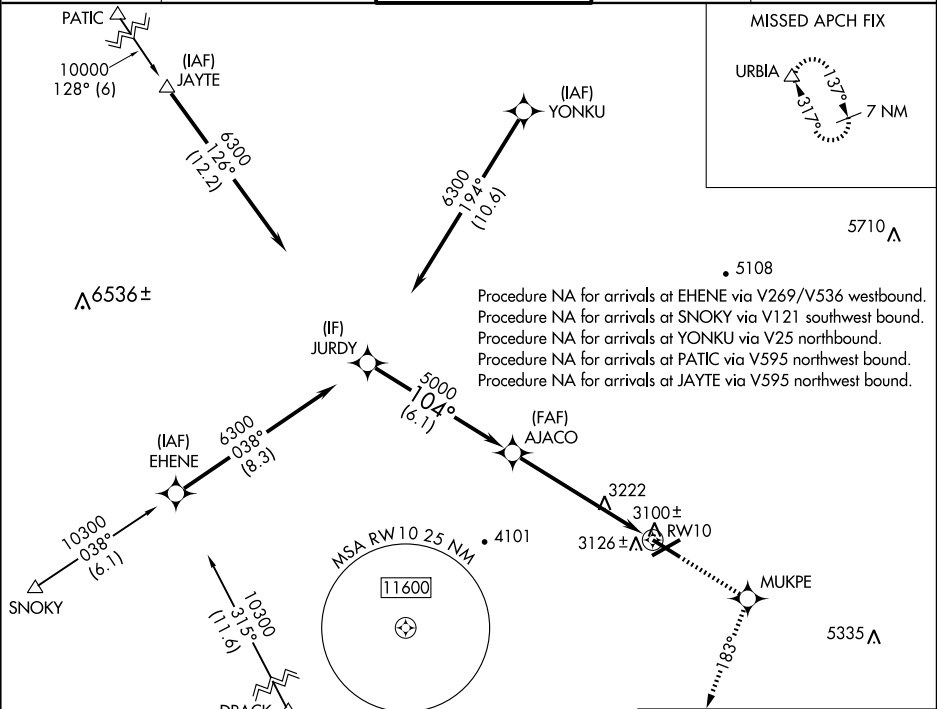
RNAV (GPS) RWY 10

REDMOND/ROBERTS FIELD (RDM)

▽ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below
-21°C (-5°F) or above 43°C (109°F).
When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 8500 direct MUKPE
and via track 183° to URBIA and hold, continue
climb-in-hold to 8500.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER ★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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Procedure Turn NA	JURDY	AJACO	8500	MUKPE	trk 183°	URBIA	ELEV 3080 D
GS 3.00° TCH 50	6300	104°	5000	RW10	104° to RW04	TDZE 3067	0.5% UP
	6.1 NM	5.9 NM			7038 X 150	7006 X 100	0.3% UP
CATEGORY	A	B	C	D			
LPV DA		3317-1	250 (300-1)				
LNAV/VNAV DA		3370-1	303 (300-1)				
LNAV MDA	3480-1	413 (400-1)	3480-1¼	413 (400-1¼)			
CIRCLING	3480-1 400 (400-1)	3540-1 460 (500-1)	3540-1½ 460 (500-1½)	3640-2 560 (600-1)			
					REIL Rwy 4, 10 and 28 1	HIRL Rwy 4-22 1	MIRL Rwy 10-28 1

RNAV (GPS) RWY 22

REDMOND/ROBERTS FIELD (RDM)

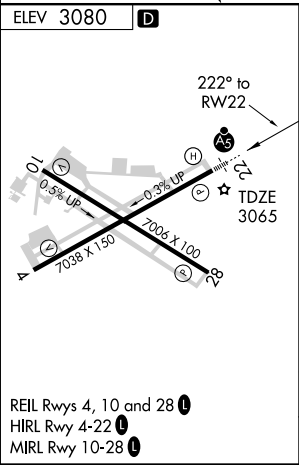
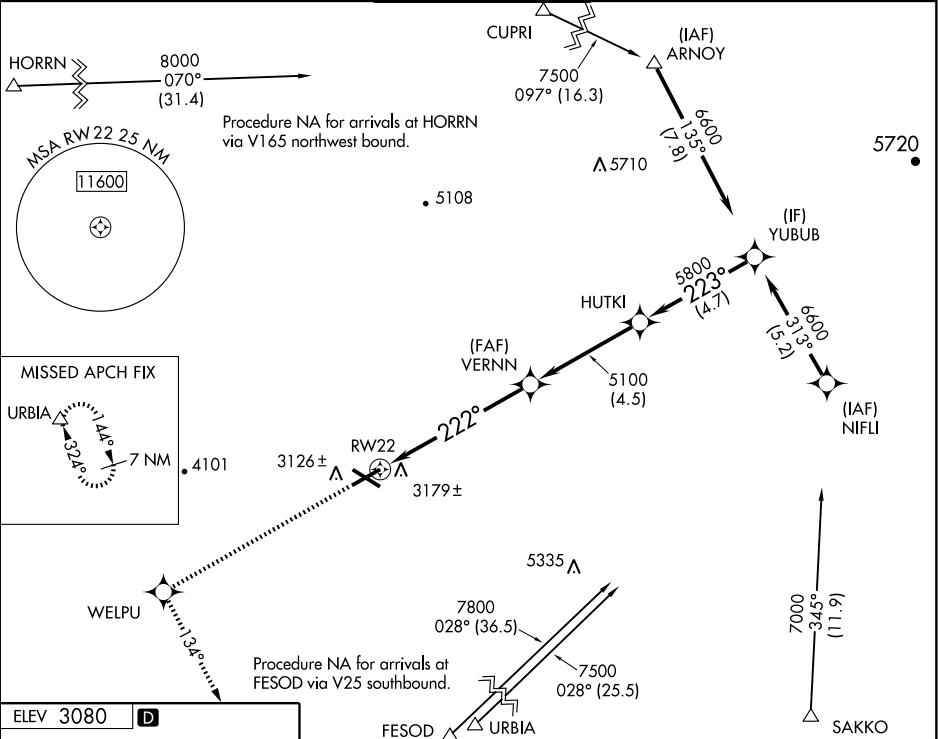
WAAS CH 82514 W22A	APP CRS 222°	Rwy Idg TDZE Apt Elev	7038 3065 3080
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For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -21°C (-5°F) or above 43°C (109°F). DME/DME RNP: 0.3 NA. When local altimeter setting not received, procedure NA. For inoperative MALSR, increase LNAV Cat D visibility to 1 ¼ mile.



MISSED APPROACH: Climb to 7600 direct WELPU and via track 134° to URBIA and hold, continue climb-in-hold to 7600.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER ★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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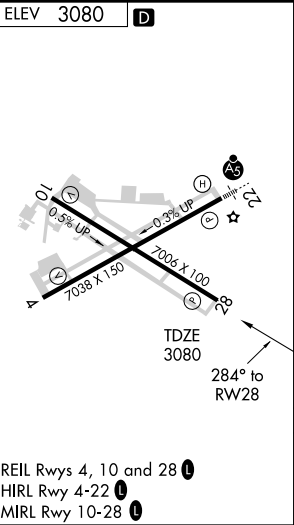
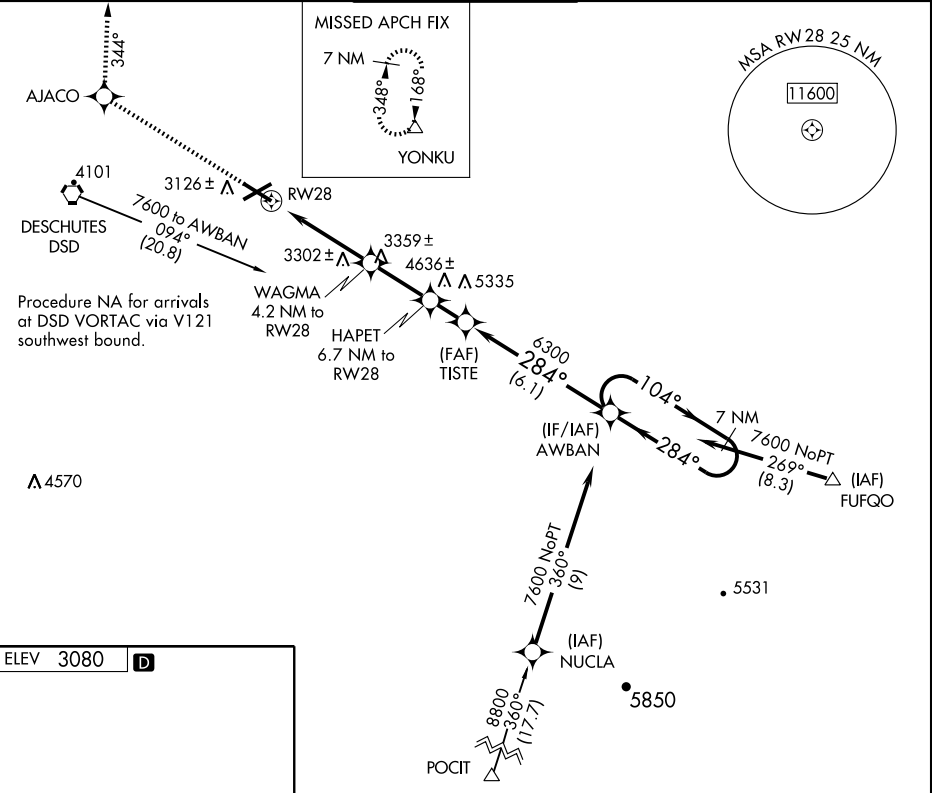
ELEV 3080	D	7600	WELPU	trk 134°	URBIA	VGSI and RNAV glidepath not coincident.	HUTKI	YUBUB	Procedure Turn NA
		* LNAV only		* 1.1 NM to RWY 22		VERNN		6600	
		RWY 22		222°		5100		223°	
		1.1 NM		5.1 NM		4.5 NM		4.7 NM	
CATEGORY	A	B	C	D					
LPV DA	3265-1 2				200 (200-1 2)				
LNAV/VNAV DA	3449-1				384 (400-1)				
LNAV MDA	3440-1 2				375 (400-1 2)	3440-1 375 (400-1)			
CIRCLING	3480-1 400 (400-1)	3540-1 460 (500-1)	3540-1 1 2 460 (500-1 2)	3640-2 560 (600-1)					

APP CRS	Rwy Idg	7006
284°	TDZE	3080
	Apt Elev	3080

RNAV (GPS) Y RWY 28

REDMOND/ROBERTS FIELD (RDM)

▼ DME/DME RNP -0.3 NA. When local altimeter setting not received, procedure NA.		MISSED APPROACH: Climb to 7000 direct AJACO and via track 344° to YONKU and hold, continue climb-in-hold to 7000.		
ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER★ 124.5 (CTAF) 256.8	GND CON 121.8	UNICOM 122.95

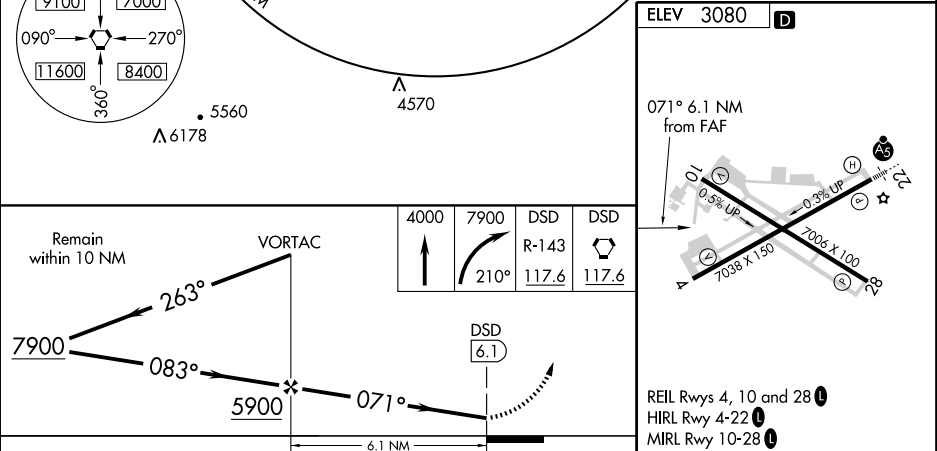
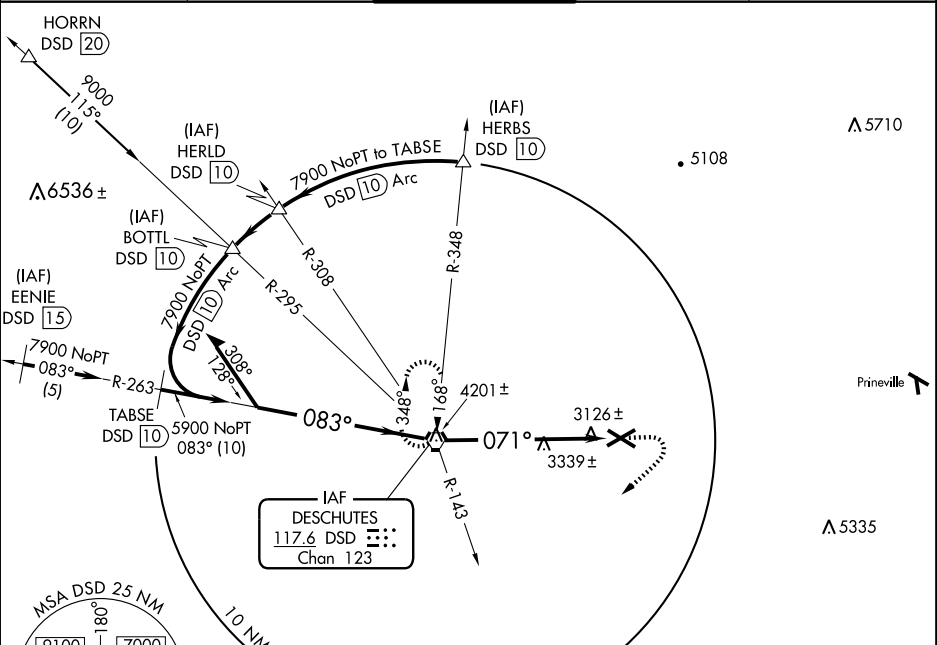


7000		AJACO	trk 344°	YONKU	HAPET 6.7 NM to RW28	TISTE	AWBAN	7 NM Holding Pattern
		1.4 NM to RW28		WAGMA 4.2 NM to RW28	3.64° TCH 50	6300	104° → 7600	← 284°
		4740		5720			VGSI and descent angles not coincident.	
		1.4 NM	2.8 NM	2.5 NM	1.5 NM	6.1 NM		
CATEGORY	A		B		C		D	
LNAV MDA	3560-1		480 (500-1)		3560-1¼ 480 (500-1¼)		NA	
CIRCLING	3560-1		480 (500-1)		3560-1½ 480 (500-1½)		NA	

VORTAC DSD 117.6 Chan 123	APP CRS 071°	Rwy Idg TDZE Apt Elev 3080	N/A N/A
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MISSED APPROACH: Climb to 4000 then climbing right turn to 7900 via heading 210° and DSD R-143 to DSD VORTAC and hold.

ATIS 119.025	SEATTLE CENTER 128.15 257.75	REDMOND TOWER ★ 124.5 (CTAF) 0 256.8	GND CON 121.8	UNICOM 122.95
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CATEGORY	A	B	C	D	FAF to MAP 6.1 NM					
CIRCLING	3600-1	520 (600-1)	3600-1½ 520 (600-1½)	3640-2 560 (600-2)	Knots	60	90	120	150	180
					Min:Sec	6:06	4:04	3:03	2:26	2:02

VORTAC DSD	APP CRS	Rwy Idg	7038
<u>117.6</u>	249°	TDZE	3065
Chan 123		Apt Elev	3080

REDMOND/ROBERTS FIELD (RDM)



Inoperative table does not apply.



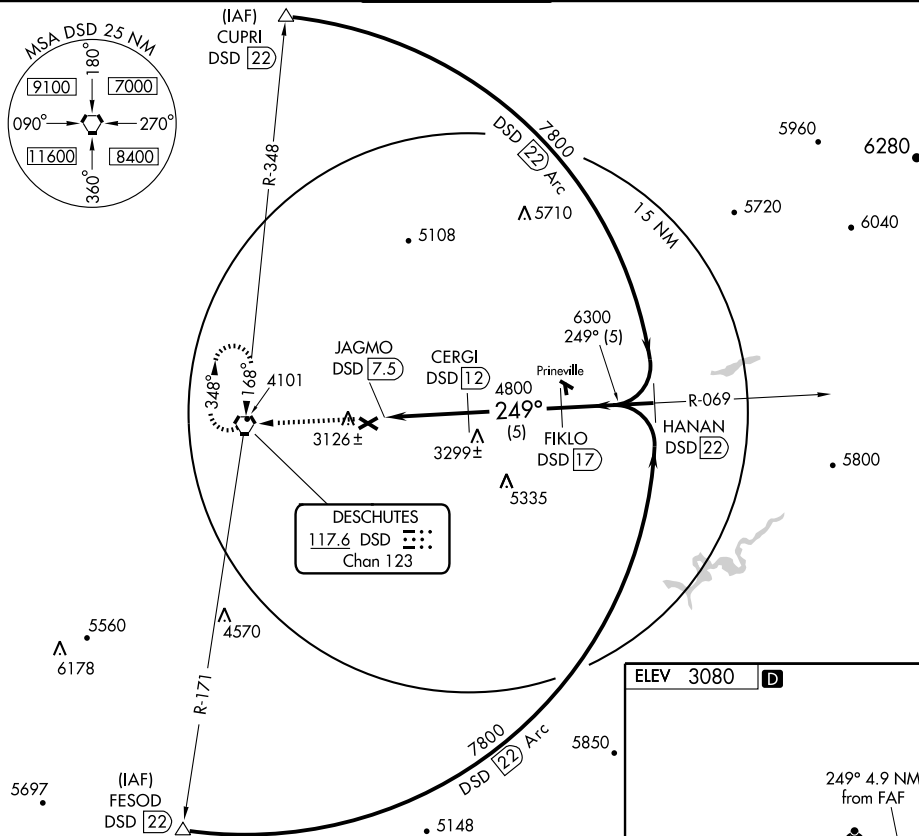
MISSED APPROACH: Climb to 7000 direct DSD VORTAC and hold.

ATIS
119.025

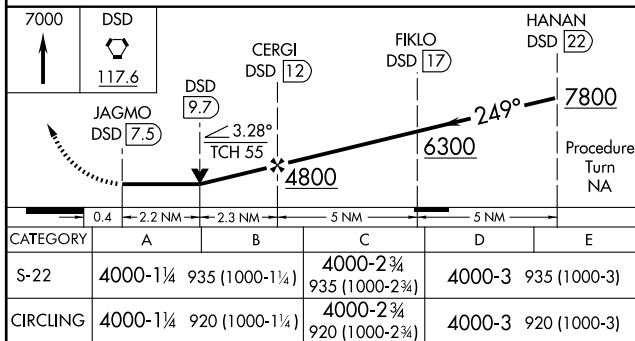
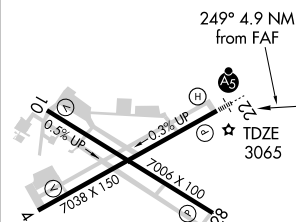
SEATTLE CENTER
128.15 257.75

REDMOND TOWER★
124.5 (CTAF) **L** 256.8

GND CON
121.8

UNICOM
122.95

ELEV 3080



REIL Rwy 4, 10 and 28 **L**
HIRL Rwy 4-22 **L**
MIRL Rwy 10-28 **L**

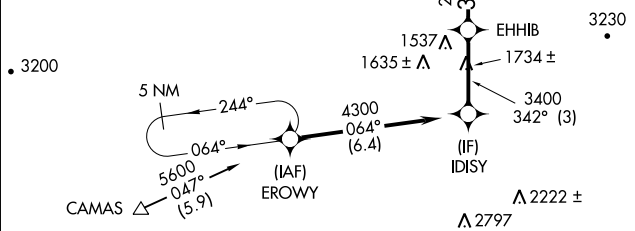
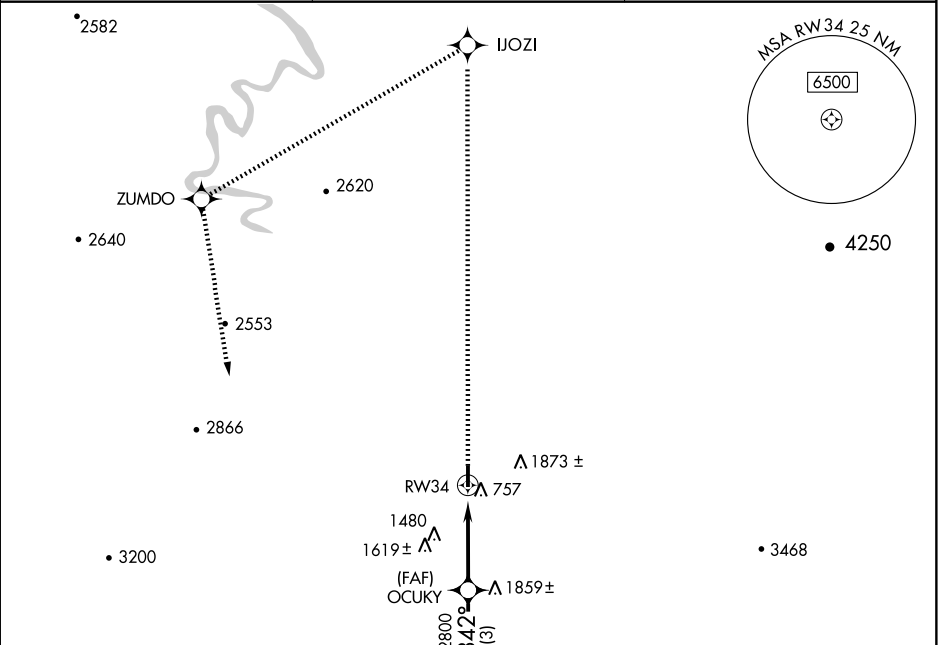
RNAV (GPS)-B
ROSEBURG RGNL (RBG)

APP CRS 342°	Rwy Idg TDZE Apt Elev	N/A N/A 529
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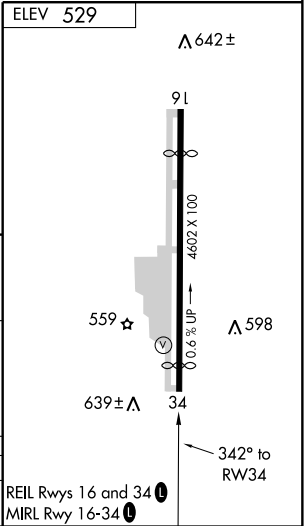
⚠ Circling NA east of Rwy 16-34.
⚠ If local altimeter setting not received, use North Bend
altimeter setting and increase all MDAs 520 feet.
DME/DME RNP -0.3 NA.

MISSED APPROACH: Climb to 5600 direct IJOZI and
left turn via 222° track to ZUMDO and via 153° track
to EROWY and hold.

ASOS 135.475	SEATTLE CENTER 121.4 239.0	UNICOM 122.8 (CTAF) 0
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VGSI and descent angles not coincident			
CATEGORY	A	B	C
CIRCLING	1700-1¼ 1171 (1200-1¼)	1700-1½ 1171 (1200-1½)	1700-3 1171 (1200-3)

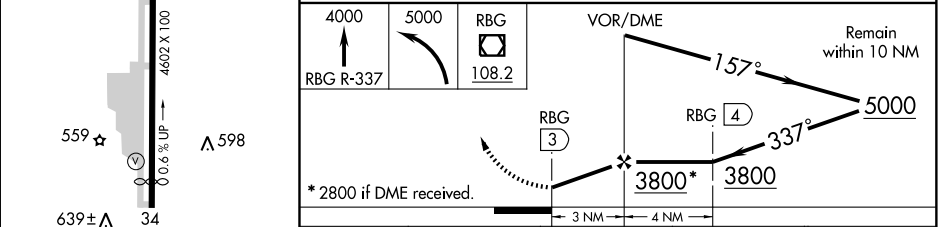
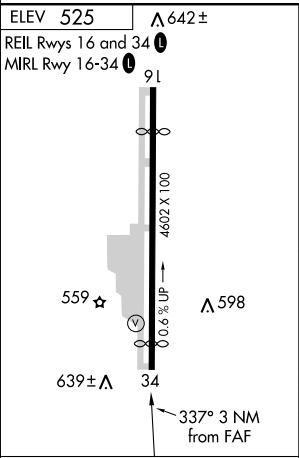
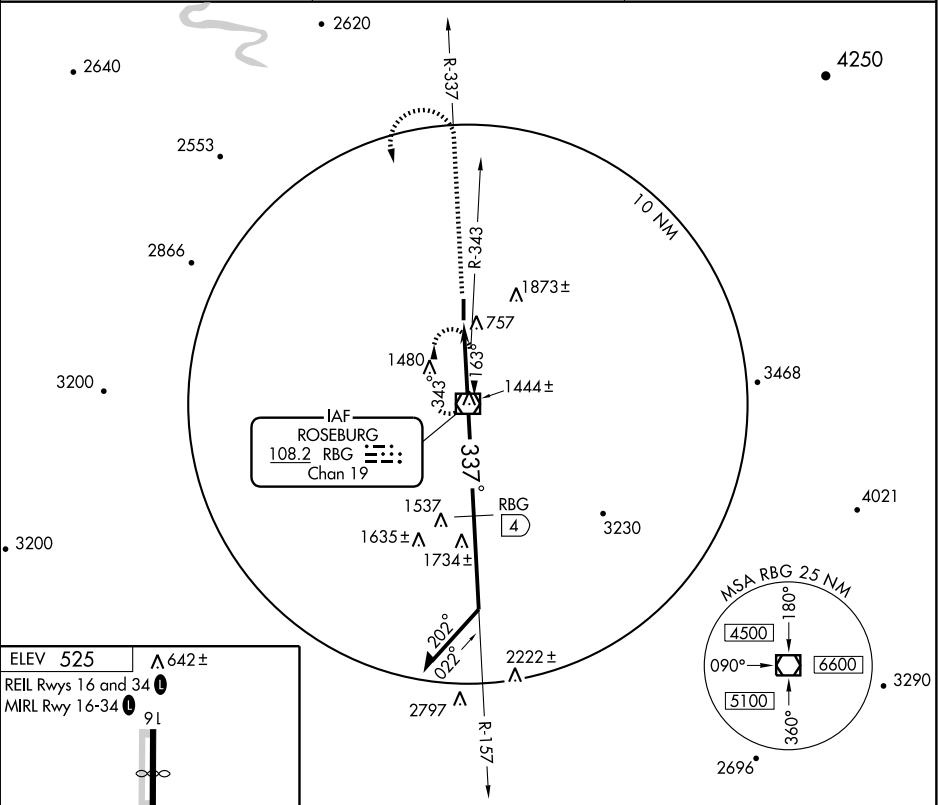


NA

Circling not authorized east of Rwy 16-34.

MISSED APPROACH: Climb to 4000 via RBG R-337 within 1.5 NM; then climbing left turn to 5000 direct RBG VOR/DME and hold.

ASOS 135.475	SEATTLE CENTER 121.4 239.0	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
CIRCLING	2600-1¼ 2075 (2100-1¼)	2600-1½ 2075 (2100-1½)	2600-3	2075 (2100-3)
DME MINIMUMS				
CIRCLING	1740-1¼ 1215 (1300-1¼)	1740-1½ 1215 (1300-1½)	1740-3 1215 (1300-3)	1920-3 1395 (1400-3)

LOC/DME I-SLE	APP CRS	Rwy Idg	5811
110.3	313°	TDZE	214
Chan 40		Apt Elev	214

***RVR 1800** authorized with the use of FD or AP or HUD to DA.
When local altimeter setting not received, use Mc Minnville
altimeter setting and increase DA 49 feet, and all MDA 60 feet;
increase circling Cat D visibility to 2 3/4 miles.
VDP NA when using Mc Minnville altimeter setting.

MALSR

MISSED APPROACH: Climb to 4000
via I-SLE NW course to ARTTY
FM/INT/I-SLE 5.6 DME and hold,
continue climb-in-hold to 4000.

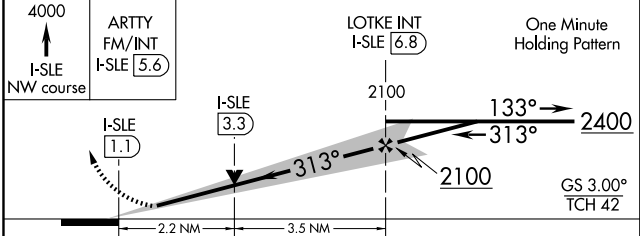
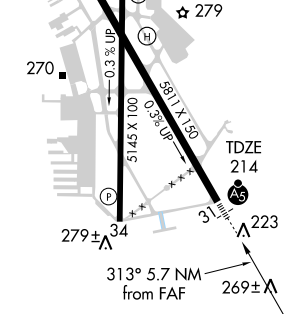
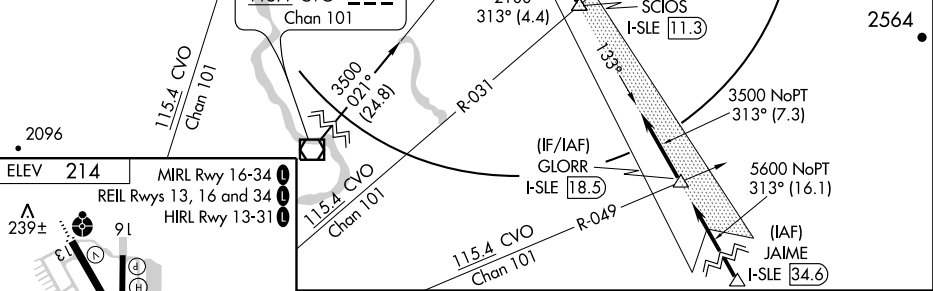
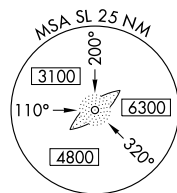
ATIS	SEATTLE CENTER	SALEM TOWER *	GND CON	UNICOM
124.55	125.8 291.7	119.1(CTAF) 257.2	121.9	122.95

ALTERNATE MISSED
APCH FIX

TURN
SL 266

133°

Procedure NA for arrivals at JAIME
via V536 eastbound.
Procedure NA for arrivals at GLORR
via V448 southbound.



CATEGORY	A	B	C	D
S-ILS 31	*414/24 200 (200-1/2)			
S-LOC 31	960/24 746 (800-1/2)	960/40 746 (800-3/4)	960-1 3/4 746 (800-1 3/4)	960-2 746 (800-2)
CIRCLING	960-1 746 (800-1)	960-1 1/4 746 (800-1 1/4)	960-2 1/4 746 (800-2 1/4)	1000-2 1/2 786 (800-2 1/2)

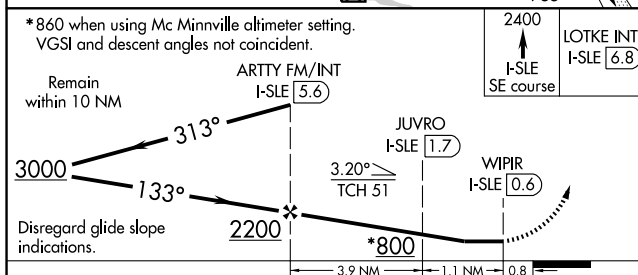
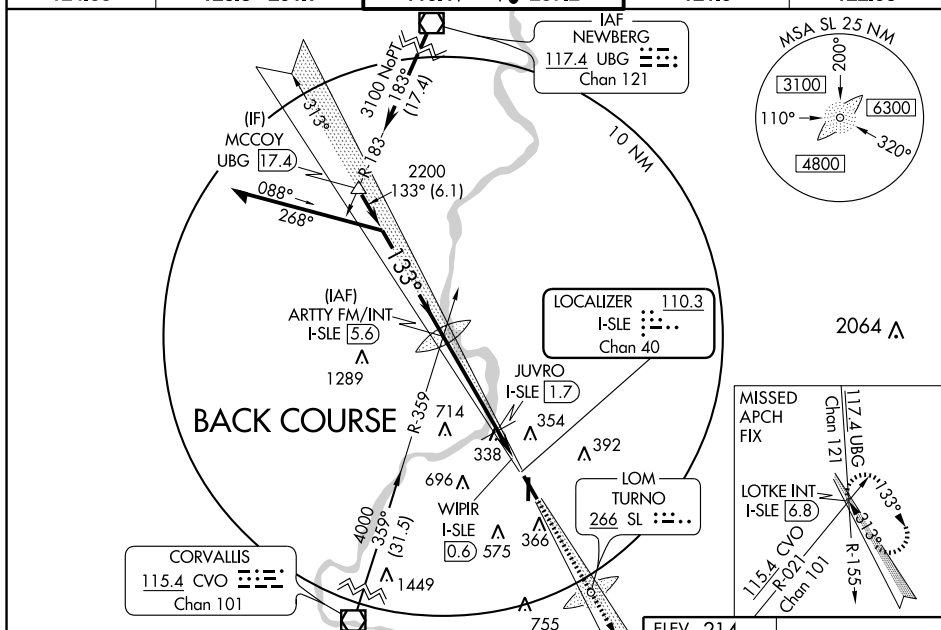
FAF to MAP 5.7 NM				
Knots	60	90	120	150
Min:Sec	5:42	3:48	2:51	2:17

LOC/DME I-SLE 110.3 Chan 40	APP CRS 133°	Rwy Idg TDZE 204 Apt Elev 214	5811
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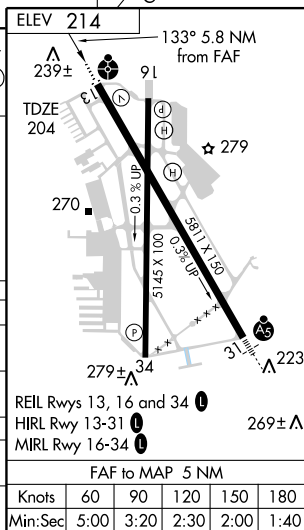
LOC BC RWY 13

SALEM / MCNARY FIELD (SLE)

<div><div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div><div></div><div></div></div></div><div>NA</div></div>			<div>Inoperative table does not apply to S-13 Cat C or when using McMinville altimeter setting to S-13 Cat C and JUVRO fix minimums Cat C. ARTTY INT not authorized for final approach fix. When local altimeter setting not received, use McMinville altimeter setting and increase all MDA 60 feet and Cat C and D visibility ¼ mile, for JUVRO fix minimums, increase S-13 Cat C visibility ½ mile, Cat D visibility ¼ mile.</div>			<div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div>ODALS</div></div> <div><div><div><div></div><div></div></div><div><div></div><div></div></div></div><div></div></div>		<div>MISSED APPROACH: Climb to 2400 via I-SLE SE course to LOTKE INT/I-SLE 6.8 DME and hold, continue climb-in-hold to 2400.</div>	
<div>ATIS</div> <div>124.55</div>		<div>SEATTLE CENTER</div> <div>125.8 291.7</div>		<div>SALEM TOWER ★</div> <div>119.1(CTAF) 0 257.2</div>		<div>GND CON</div> <div>121.9</div>		<div>UNICOM</div> <div>122.95</div>	



CATEGORY	A	B	C	D
S-13	800-¾	596 (600-¾)	800-1½	800-1¾
			596 (600-1½)	596 (600-1¾)
CIRCLING	900-1	940-1	940-2	1000-2½
	686 (700-1)	726 (800-1)	726 (800-2)	786 (800-2½)
JUVRO FIX MINIMUMS				
S-13	600-¾	396 (400-¾)		600-1¼
				396 (400-1¼)
CIRCLING	900-1	940-1	940-2	1000-2½
	686 (700-1)	726 (800-1)	726 (800-2)	786 (800-2½)



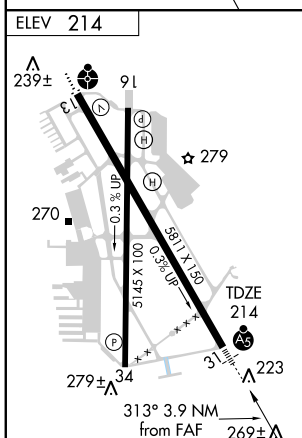
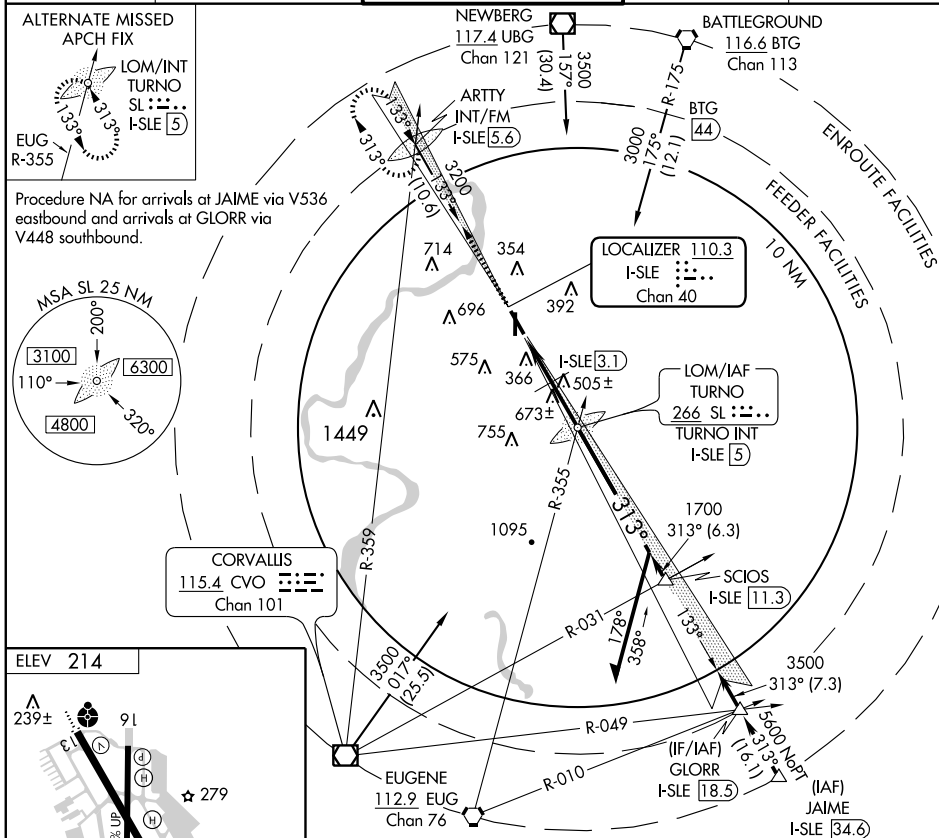
LOC/DME I-SLE 110.3 Chan 40	APP CRS 313°	Rwy Idg 5811 TDZE 214 Apt Elev 214
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LOC/DME RWY 31

SALEM / MCNARY FIELD (SLE)

 	ATIS 124.55	SEATTLE CENTER 125.8 291.7	SALEM TOWER ★ 119.1 (CTAF) 257.2	GND CON 121.9	UNICOM 122.95
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MISSED APPROACH: Climb to 4000 via I-SLE LOC northwest course to ARTTY FM/I-SLE 5.6 DME and hold, continue climb-in-hold to 4000.



REIL Rwy 13, 16 and 34
HIRL Rwy 13-31
MIRL Rwy 16-34

	ARTTY INT I-SLE 5.6		TURN LOM/INT I-SLE 5		Remain within 10 NM	
	I-SLE 1.1		I-SLE 2.5		I-SLE 3.1	
	1.4 NM		0.6		1.9 NM	
CATEGORY	A		B		C	
S-31	780/24		566 (600-1/2)		780/50	
					566 (600-1)	
CIRCLING	900-1		940-1		940-2	
	686 (700-1)		726 (800-1)		726 (800-2)	
					780/60	
					566 (600-1 1/4)	
					1000-2 1/2	
					786 (800-2 1/2)	


WAAS CH 86202 W31A	APP CRS 313°	Rwy Idg TDZE Apt Elev	5811 214 214
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RNAV (GPS) RWY 31

SALEM / MCNARY FIELD (SLE)

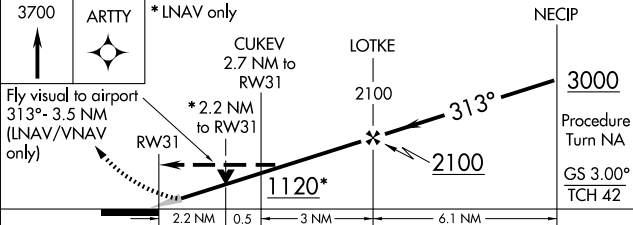
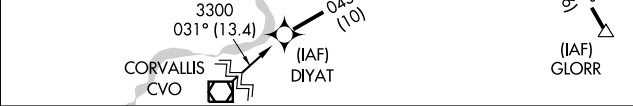
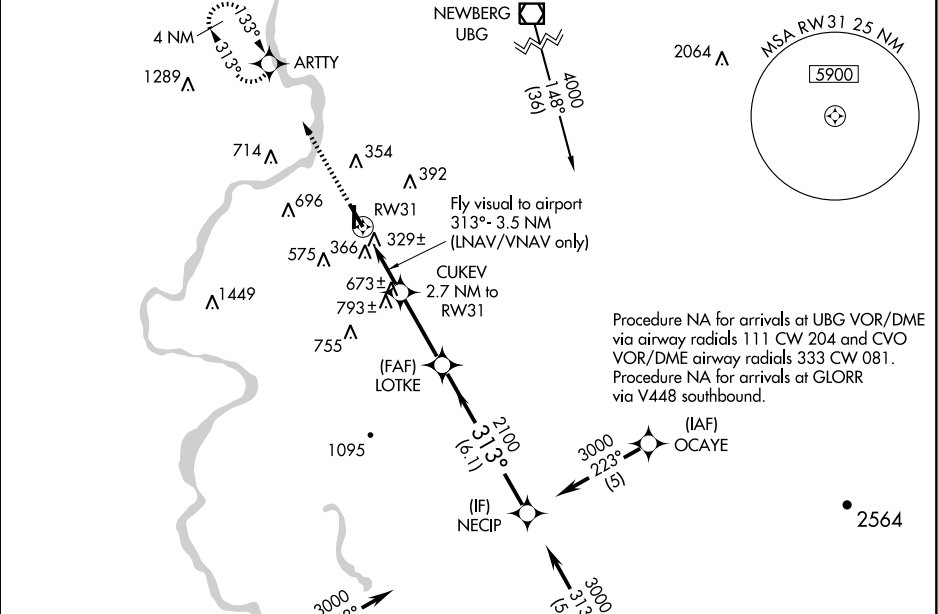
⚠ Inoperative table does not apply to LNAV/VNAV. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use McMinnville altimeter setting and increase all DA 49 feet; increase all MDA 60 feet and LNAV and circling visibility Cats B/C/D ¼ mile. Baro-VNAV and VDP NA when using McMinnville altimeter setting.

MALSR

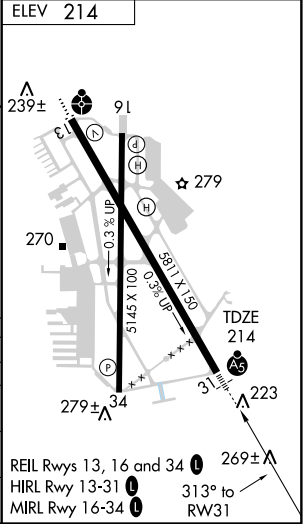


MISSED APPROACH:
Climb to 3700 direct ARTTY and hold, continue climb-in-hold to 3700.

ATIS 124.55	SEATTLE CENTER 125.8 291.7	SALEM TOWER ★ 119.1(CTAF) 0 257.2	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	414/24 200 (200-½)			
LNAV/VNAV DA	1334-2	1120 (1200-2)	1334-3	1120 (1200-3)
LNAV MDA	940/24	726 (800-½)	940-1½ 726 (800-1½)	940-1¾ 726 (800-1¾)
CIRCLING	940-1	726 (800-1)	940-2 726 (800-2)	1000-2 ½ 786 (800-2½)



SALEM TWO DEPARTURE

SL-361 (FAA)

SALEM / MCNARY (SLE)
SALEM, OREGON

GND CON

121.9

SALEM TOWER ★

119.1 (CTAF) 257.2

SEATTLE CENTER

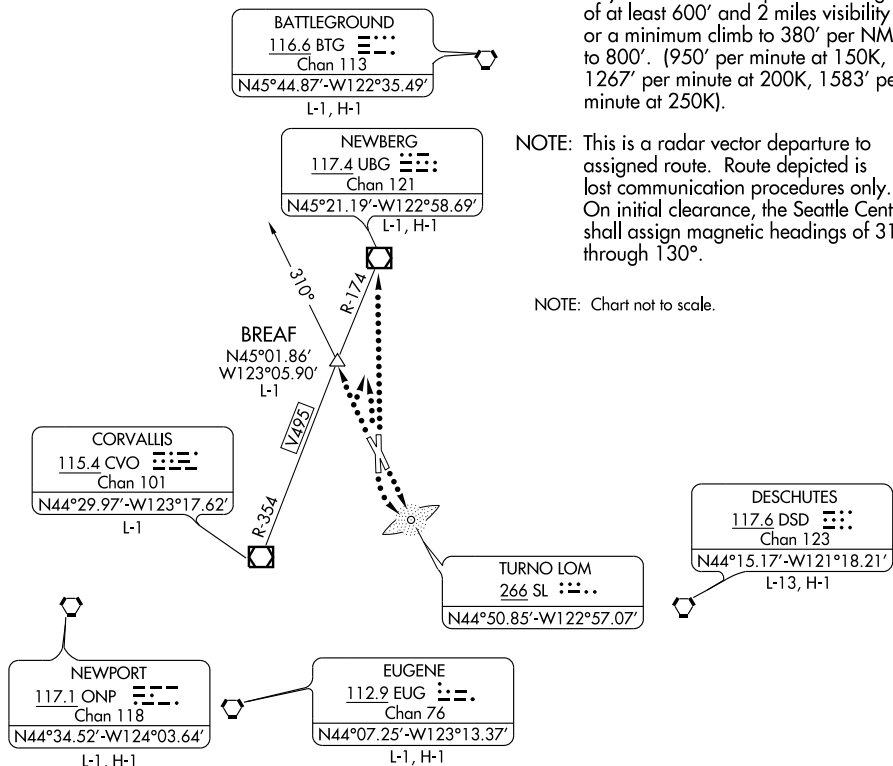
125.8 291.7

NOTE: Rwy 13-This SID requires a ceiling of at least 600' and 2 miles visibility, or a minimum climb of 240' per NM to 800'. (600' per minute at 150K, 800' per minute at 200K, 1000' per minute at 250K).

NOTE: Rwy 16 - This SID requires a ceiling of at least 600' and 2 miles visibility or a minimum climb to 380' per NM to 800'. (950' per minute at 150K, 1267' per minute at 200K, 1583' per minute at 250K).

NOTE: This is a radar vector departure to assigned route. Route depicted is lost communication procedures only. On initial clearance, the Seattle Center shall assign magnetic headings of 310° through 130°.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

Climb via specified turn and heading, contact Seattle Center for vectors to assigned route.

LOST COMMUNICATIONS: If not in contact with Seattle Center after reaching 2000', continue climb to assigned altitude.

Take-off runways 13 and 16: (Rwy 16 turn left) proceed direct to SL LOM thence via (assigned route).

Take-off runways 31 and 34: (Rwy 31 right turn) proceed direct to UBG VOR/DME thence via (assigned route).

Helicopter only-runways 31 and 34: (Rwy 34 turn left) intercept and proceed outbound on the SL LOM 310° bearing to BREF INT, thence via (assigned route).

LOC/DME I-FKO <u>111.1</u> Chan 48	APP CRS 149°	Rwy Idg 5100 TDZE 55 Apt Elev 55
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LOC/DME RWY 15
SCAPPOOSE INDUSTRIAL AIRPARK (SPB)

T Circling not authorized west of Rwy 15-33.

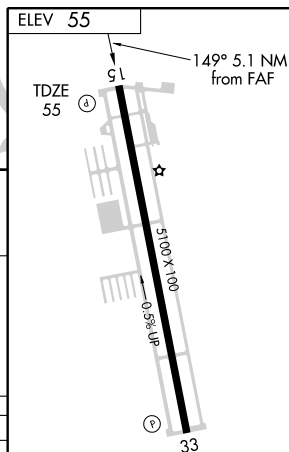
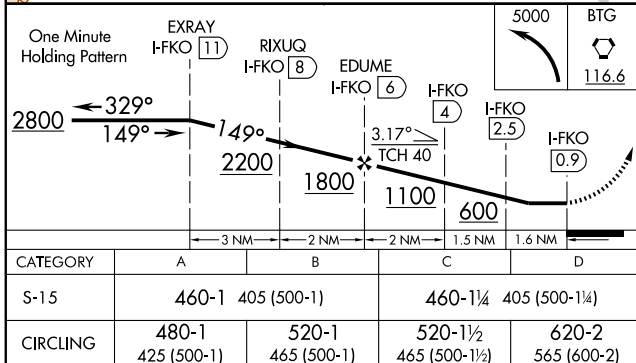
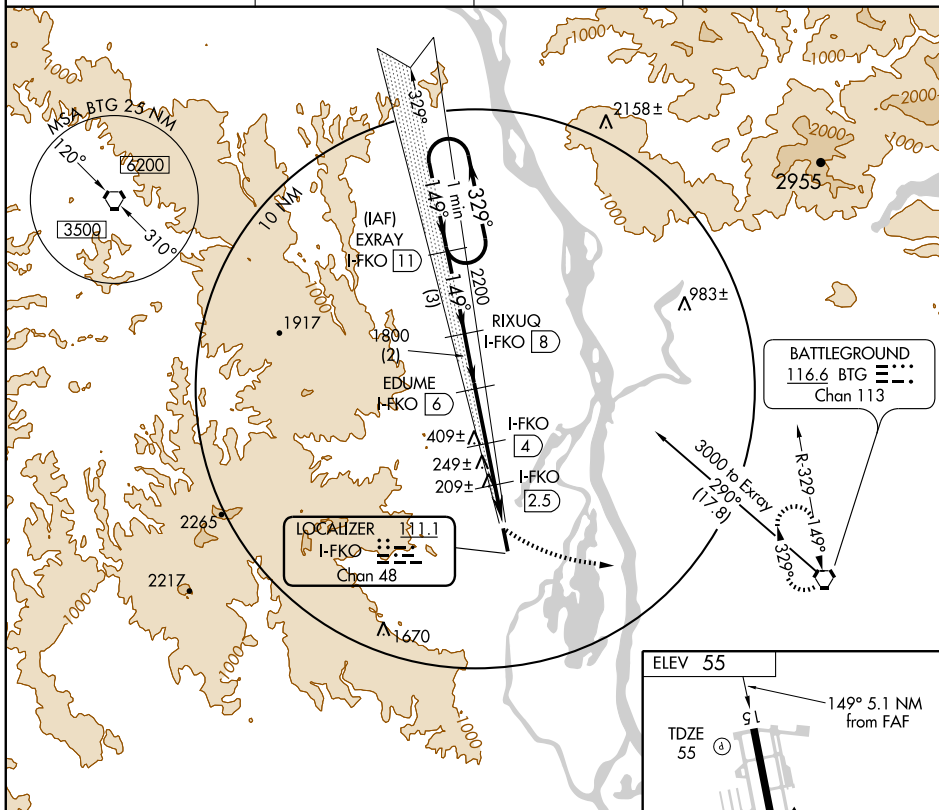
MISSED APPROACH: Climbing left turn to 5000 direct BTG VORTAC and hold.

ASOS
135.875

PORTLAND APP CON
124.35 299.2

CLNC DE
121,65

UNICOM
122.8 (CTAF)



REIL Rwy 15
MIRL Rwy 15-33

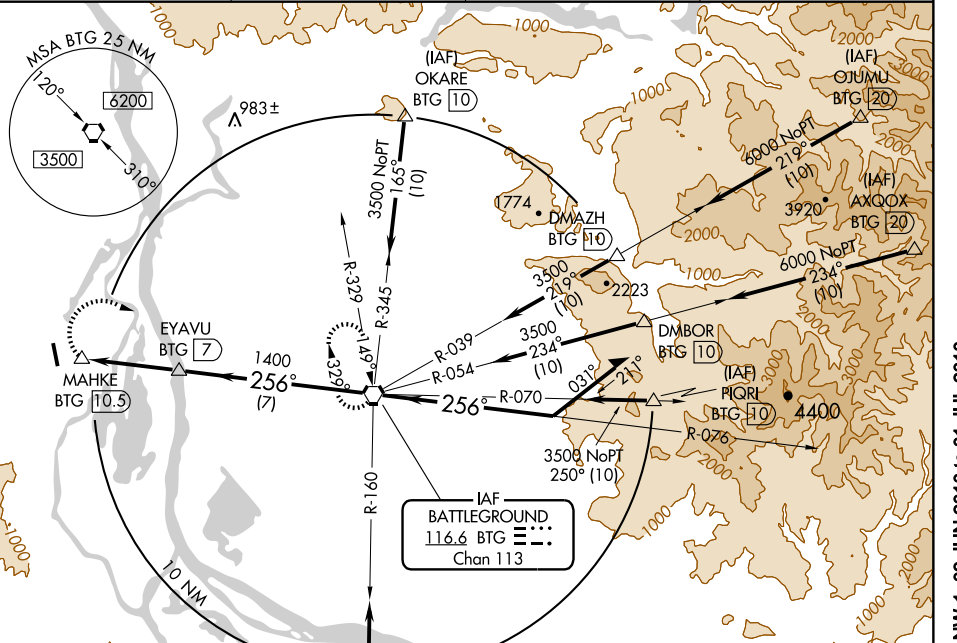
VORTAC BTG	APP CRS	Rwy Idg TDZE	N/A
116.6	256°		N/A
Chan 113		Apt Elev	55

▼

▲

MISSED APPROACH: Climbing right turn to 4200 direct BTG VORTAC and hold.

ASOS 135.875	PORTLAND APP CON 124.35 299.2	CLNC DEL 121.65	UNICOM 122.8 (CTAF)
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ELEV 55

4200 BTG 116.6

MAHKE BTG 10.5

EYAVU BTG 7

VORTAC

076°

256°

5600

3500

1400

0.8

3.5 NM

7 NM

Remain within 10 NM

CATEGORY	A	B	C	D
CIRCLING	680-1 625 (700-1)	940-1¼ 885 (900-1¼)	1000-2¾ 945 (1000-2¾)	1260-3 1205 (1300-3)

REIL Rwy 15
MIRL Rwy 15-33

NW-1. 03 JUN 2010 to 01 JUL 2010

APP CRS
178°

Rwy Idg
4467

TDZE
4162

Apt Elev
4164

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
Circling NA at night to Rwy 36.
Obtain local altimeter setting on CTAF; when not received, use Redmond altimeter setting.

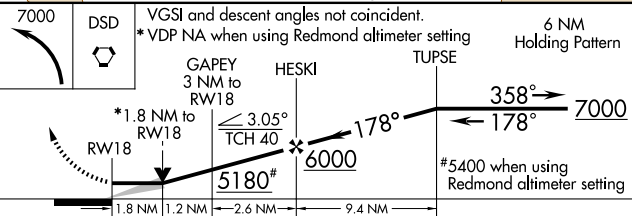
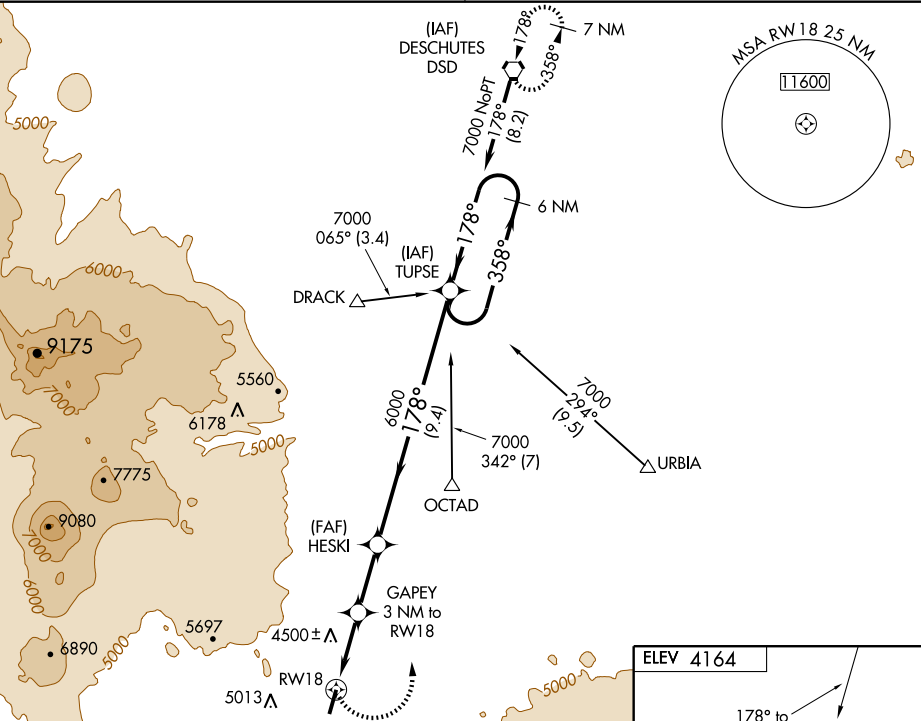
MISSED APPROACH: Climbing left turn to 7000 direct DSD VORTAC and hold.

SEATTLE CENTER

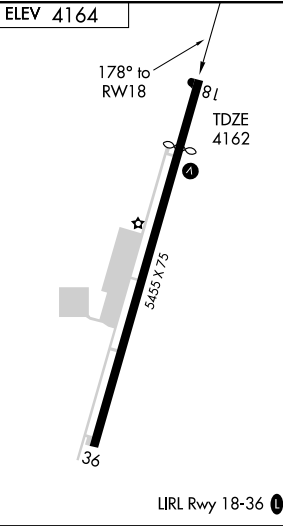
128.15 257.75

UNICOM

122.8 (CTAF) 1



CATEGORY	A	B	C	D
RNAV MDA	4760-1	598 (600-1)	4760-1½ 598 (600-1½)	4960-2½ 798 (800-2½)
CIRCLING	4920-1 756 (800-1)	4920-1¼ 756 (800-1¼)	5040-2½ 876 (900-2½)	5380-3 1216 (1300-3)
REDMOND ALTIMETER SETTING MINIMUMS				
RNAV MDA	4980-1 818 (900-1)	4980-1¼ 818 (900-1¼)	4980-2½ 818 (900-2½)	4980-2¾ 818 (900-2¾)
CIRCLING	5140-1¼ 976 (1000-1¼)	5140-1½ 976 (1000-1½)	5260-3 1096 (1100-3)	5580-3 1366 (1400-3)



Obtain local altimeter setting on CTAF; when not received, use Redmond altimeter setting.

Circling NA at night to Rwy 36.

MISSED APPROACH: Climbing left turn to 7000 via DSD R-178 to DSD VORTAC and hold.

SEATTLE CENTER

128.15 257.75

UNICOM

122.8 (CTAF) 1

<div>7000</div> <div>DSD</div> <div>R-178</div>	<div>DSD</div> <div>117.6</div>	<div>COKAY DSD 11</div>	<div>VORTAC</div>	
<div>DOCAS DSD 23.1</div> <div>≤ 3.04°</div> <div>TCH 40</div>	<div>PEDME DSD 17</div>	<div>7000</div>	<div>Procedure Turn NA</div>	
<div>0.1</div>	<div>6.1 NM</div>	<div>6 NM</div>	<div>11 NM</div>	
CATEGORY	A	B	C	D
S-18	5440-1¼ 1278 (1300-1¼)	5440-1½ 1278 (1300-1½)	5440-3	1278 (1300-3)
CIRCLING	5440-1¼ 1276 (1300-1¼)	5440-1½ 1276 (1300-1½)	5440-3	1276 (1300-3)
REDMOND ALTIMETER SETTING MINIMUMS				
S-18	5660-1¼ 1498 (1500-1¼)	5660-1½ 1498 (1500-1½)	5660-3	1498 (1500-3)
CIRCLING	5660-1¼ 1496 (1500-1¼)	5660-1½ 1496 (1500-1½)	5660-3	1496 (1500-3)

NW-1. 03 JUN 2010 to 01 JUL 2010

LOC/DME I-DLS 109.35 Chan 30(Y)	APP CRS 234°	Rwy Idg TDZE Apt Elev	4451 243 247
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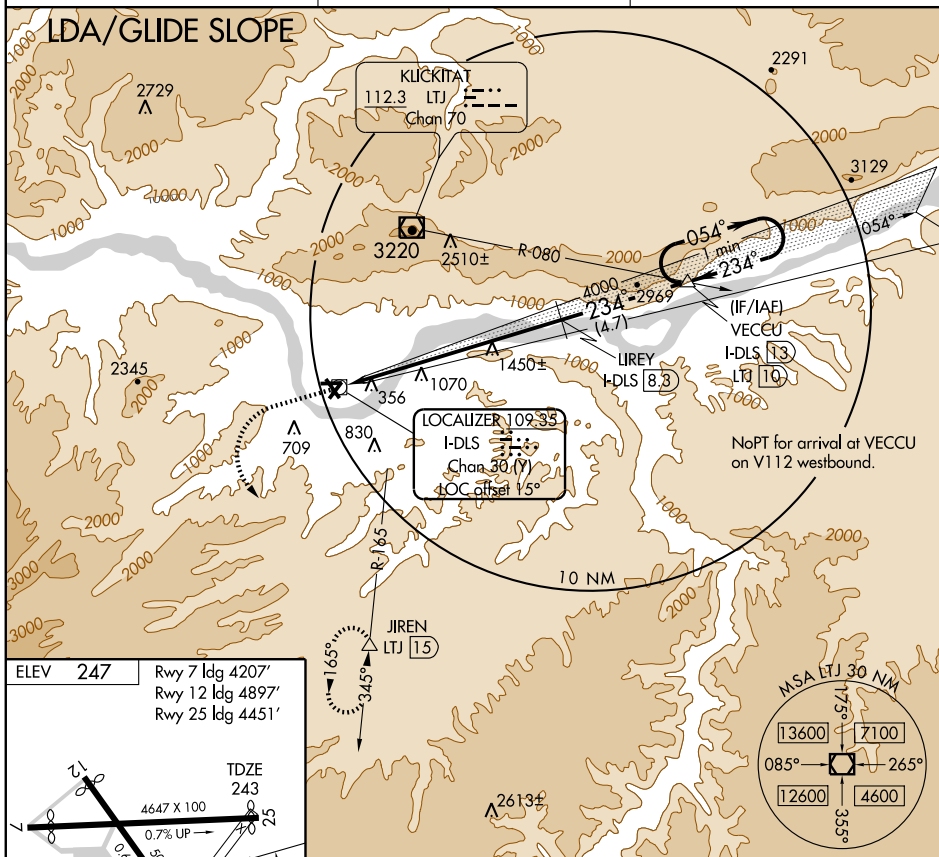
COPTER LDA/DME RWY 25

THE DALLES/COLUMBIA GORGE RGNI/LTHE DALLES MUNI (DLS)

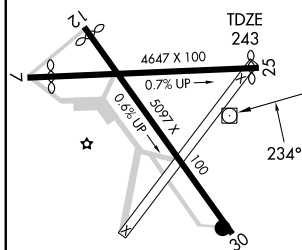
▼ Glide slope provided by standard glide slope equipment.
▲ NA If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 1200 then climbing left turn to 7000 via heading 125° and LTJ VOR/DME R-165 to JIREN/LTJ 15 DME and hold, continue climb-in-hold to 7000.

ASOS 135.175	SEATTLE CENTER 119.65 257.6	UNICOM 123.0 (CTAF) 0
------------------------	---------------------------------------	---------------------------------



ELEV 247	Rwy 7 Idg 4207'
	Rwy 12 Idg 4897'
	Rwy 25 Idg 4451'



REIL Rwy 30 0
MIRL Rwy 7-25 and 12-30 0

1200	7000	LTJ R-165 <u>112.3</u>	JIREN △	Use I-DLS DME when on the localizer course.	
↑	125°			VECCU I-DLS <u>13</u>	One Minute Holding Pattern

LOC/DME I-DLS 109.35 Chan 30 (Y)	APP CRS 234°	Rwy Idg TDZE Apt Elev	4451 243 247
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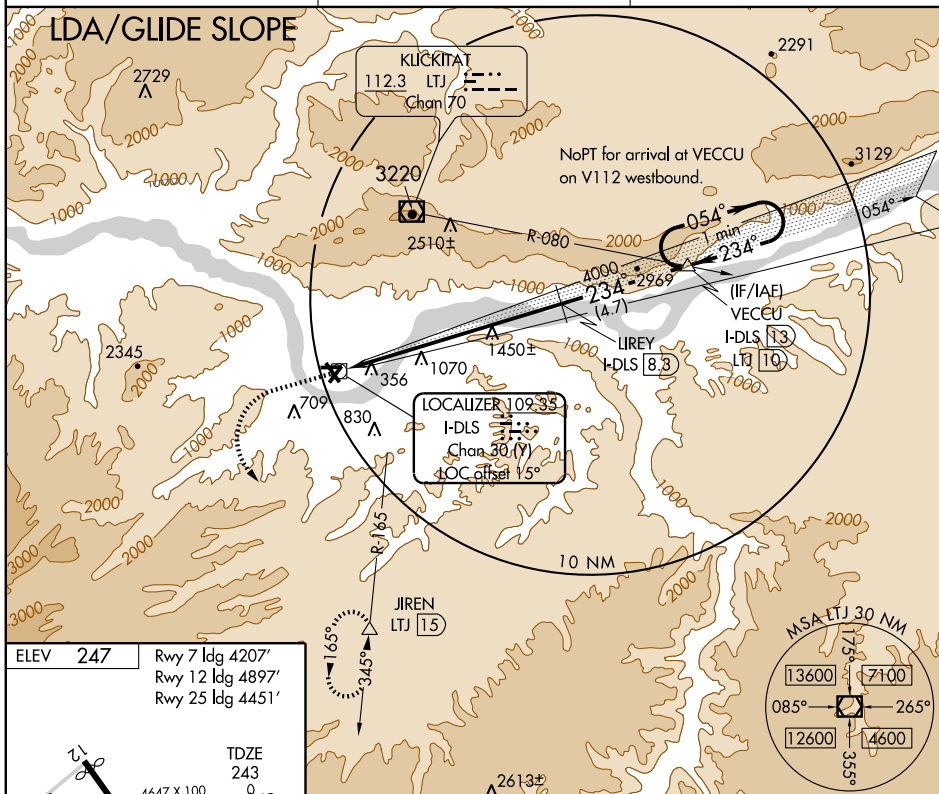
THE DALLES/ COLUMBIA GORGE RGNI/LTHE DALLES MUNI (DLS)

LDA/DME RWY 25

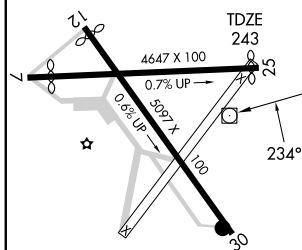
NA Circling requires descent on GS to MDA.
Glide slope provided by standard glide slope equipment.
Visibility reduction by helicopters NA.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 1600 then climbing left turn to 7000 via heading 135° and LTJ VOR/DME R-165 to JIREN/LTJ 15 DME and hold, continue climb-in-hold to 7000.

ASOS 135.175	SEATTLE CENTER 119.65 257.6	UNICOM 123.0 (CTAF) 0
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ELEV 247	Rwy 7 Idg 4207' Rwy 12 Idg 4897' Rwy 25 Idg 4451'
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REIL Rwy 30 0
MRL Rwy 7-25 and 12-30 0

Knots	60	90	120	150	180
Min:Sec					

	1600	7000	LTJ R-165 112.3	JIREN △	Use I-DLS DME when on the localizer course.	VECCU I-DLS 13	One Minute Holding Pattern
	↑	↻ 135°					
			LIREY I-DLS 8.3				
			4000				
			8.2 NM	4.7 NM			
						054° → 5300	GS 4.20° TCH 43
						← 234°	
CATEGORY	A	B	C	D			
S-LDA/GS 25	1368-2¾	1125 (1200-2¾)					NA
CIRCLING	1380-3	1133 (1200-3)					NA

APP CRS 335°	Rwy Idg TDZE Apt Elev	N/A N/A 247
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RNAV (GPS)-A

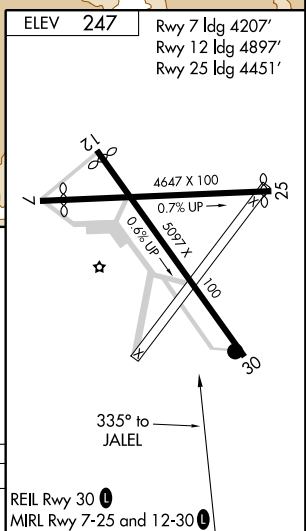
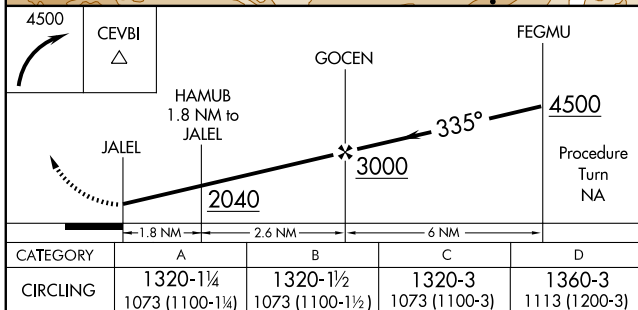
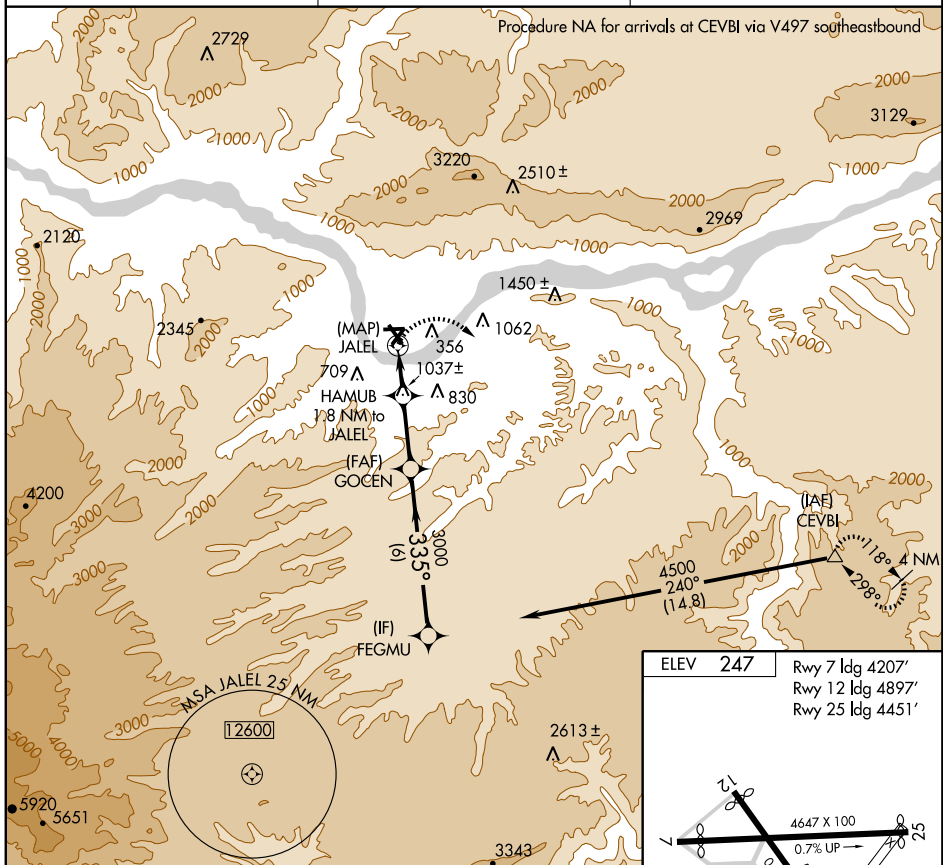
THE DALLES/COLUMBIA GORGE RGNL/THE DALLES MUNI (DLS)

T DME/DME RNP-0.3 NA. Circling to Rwy 7 NA at night.
A Visibility reduction by helicopters NA.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing right turn to 4500 direct CEVBI and hold.

ASOS
135.175

SEATTLE CENTER
119.65 257.6

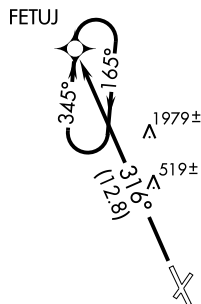
UNICOM
123.0 (CTAF) 

SEATTLE CENTER
124.2 317.6
McMINNVILLE RADIO
122.45

CONTIGUOUS U. S. ADIZ

W-570

W-570



NOTE: 1. GPS required
2. RNAV 1

NOTE: Rwy 31: 2000-3 or standard with minimum climb
of 350' per NM to 4500'.
Rwys 1, 13, and 19 not authorized for this
Departure Procedure.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 31: Climb to 5000 via 316° course to FETUJ WP.

Northbound aircraft continue on course to assigned altitude.

Southbound aircraft continue climb in FETUJ WP holding pattern (south, right turn, 345° inbound) to MEA for assigned route before proceeding on course.

APP CRS
136°

Rwy Idg
TDZE
28

Apt Elev
36

RNAV (GPS) RWY 13

TILLAMOOK (TMK)

When local altimeter setting not received, use Astoria altimeter setting.

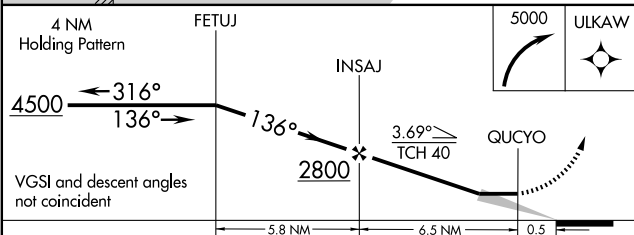
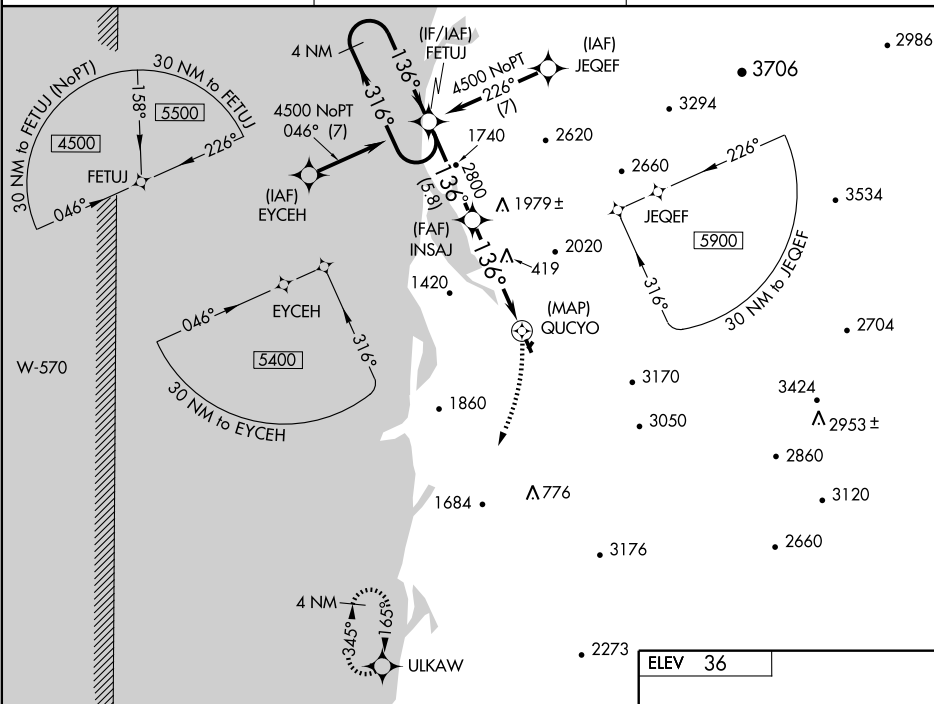
NA GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.
Circling NA Rwy 1-19 at night.

MISSED APPROACH: Climbing right turn to 5000 direct ULKAW WP and hold.

AWOS-3
120.0

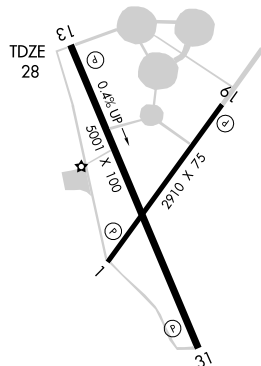
SEATTLE CENTER
124.2 317.6

UNICOM
122.8 (CTAF) 0



CATEGORY	A	B	C	D
RNAV MDA	760-1	732 (800-1)	760-2	NA
CIRCLING	880-1	920-1¼	920-2¾	NA
	844 (900-1)	884 (900-1¼)	884 (900-2¾)	
ASTORIA ALTIMETER SETTING MINIMUMS				
RNAV MDA	1280-1¼	1280-1½	1280-3	NA
	1252 (1300-1¼)	1252 (1300-1½)	1252 (1300-3)	
CIRCLING	1420-1¼	1460-1½	1460-3	NA
	1384 (1400-1¼)	1424 (1500-1½)	1424 (1500-3)	

ELEV 36



REIL Rwy 13

MIRL Rwy 1-19 and 13-31 0

INSTRUMENT APPROACH PROCEDURE CHARTS



IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI VOR/DME or GPS-A
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI NDB or GPS Rwy 34
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL RNAV (GPS) Rwy 26¹²
VOR Rwy 8³

¹NA when local weather not available.

²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

³Category C, 800-2¼; Category D, 900-3.

AURORA, OR

AURORA STATE LOC Rwy 17¹
RNAV (GPS) Rwy 17²³
RNAV (GPS) Rwy 35²

¹Category D, 800-2¼.

²NA when local weather not available.

³Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-2¾.

BAKER, MT

BAKER MUNI NDB Rwy 13¹
NDB Rwy 31²

¹Categories A,B, 1100-2; Categories C,D,
1100-3.

²Categories A,B, 1000-2; Category C, 1000-2¾;
Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI RNAV (GPS) Rwy 13¹²
VOR-A¹³
VOR/DME Rwy 13²⁴

¹NA when local weather not available.

²Category D, 900-2¾.

³Categories A,B, 1900-2; Categories C,D,
1900-3.

⁴NA when control zone not in effect.

NAME ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL ILS or LOC Rwy 16
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD VOR Rwy 31
Category D, 800-2¼.

BILLINGS, MT

BILLINGS LOGAN
INTL NDB Rwy 10L¹
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R³

¹Category D, 800-2¼.

²Categories A,B,C,D, 800-2¼.

³Categories A,B, 900-2; Categories C,D,
900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN
FIELD) LOC BC Rwy 28L
RNAV (GPS) Y Rwy 10R
RNAV (GPS) Y Rwy 28L
VOR/DME or TACAN Rwy 10L
VOR/DME or TACAN Rwy 28L
Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD VOR Rwy 12
Category C, 800-2¼; Category D, 800-2½.

BREMERTON, WA

BREMERTON NATIONAL ..RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 19¹

NA when local weather not available.

¹Categories A,B, 1200-2; Categories C,D,
1200-3.

BUFFALO, WY

JOHNSON COUNTY RNAV (GPS) Rwy 31¹
VOR/DME Rwy 31²

NA when local weather not available.

¹Category D, 800-2¼.

NAME ALTERNATE MINIMUMS

BURLEY, ID

BURLEY MUNI VOR-A
 VOR/DME-B
 NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL NDB Rwy 10'
 RNAV (GPS) Rwy 10
 RNAV (GPS) Rwy 28

NA when local weather not available.

¹Categories A,B, 1300-2; Categories C,D,
 1300-3.

BURNS, OR

BURNS MUNI VOR Rwy 30
 Categories A, B, 1400-2; Categories C,D,
 1400-3.

BUTTE, MT

BERT MOONEY ILS Y Rwy 15'
 LOC/DME Rwy 15'
 RNAV (GPS) Y Rwy 15'
 RNAV (GPS) Z Rwy 15,1200-2
 VOR or GPS-B,1400-3
 VOR/DME or GPS-A,3000-3

¹Categories A, B, C, 1200-4.

²Categories A,B, 1300-2; Categories C,D,
 1300-3.

³Categories A,B, 1500-2; Categories C,D,
 1500-3.

CALDWELL, ID

CALDWELL
 INDUSTRIAL RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 30

NA when local weather not available.

CASPER, WY

CASPER/NATRONA
 COUNTY INTL ILS or LOC Rwy 3
 ILS, Categories A,B, 800-2; Category C 800-
 2½; Category D, 800-2½; Category E, 900-3.
 LOC, Category C, 800-2½; Category D, 800-
 2½; Category E, 900-3.

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON
 FIELD ILS or LOC Rwy 27'
 NDB Rwy 27'
 RNAV (GPS) Rwy 9'
 RNAV (GPS) Rwy 13'
 RNAV (GPS) Rwy 31'

¹NA when control tower closed.

²NA when local weather not available.

NAME ALTERNATE MINIMUMS

CODY, WY

YELLOWSTONE
 REGIONAL RNAV (GPS) Rwy 22'
 VOR or GPS-A²

¹Category C, 800-2½; Category D, 200-2½.

²Category D, 900-3.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY
 BOYINGTON FIELD ILS or LOC/DME Rwy 5
 NDB Rwy 5
 RNAV (GPS) Rwy 5
 VOR Rwy 5
 VOR/DME Rwy 1

NA when local weather not available.

CORVALLIS, OR

CORVALLIS MUNI VOR-A
 Categories A,B,1200-2; Categories C,D,
 1200-3.

DEER PARK, WA

DEER PARK RNAV (GPS) Rwy 34
 NA when local weather not available.

DILLON, MT

DILLON VOR or GPS-A,1500-3
 VOR/DME or GPS-B

NA when Dillon altimeter setting not available.

DOUGLAS, WY

CONVERSE COUNTY VOR Rwy 29
 Categories A,B, 1100-2; Categories C,D,
 1100-3. DME standard.

EASTSOUND, WA

ORCAS ISLAND RNAV (GPS)-A
 Categories A, B, 1100-2.
 NA when local weather not available.

ELLENSBURG, WA

BOWERS FIELD RNAV (GPS) Rwy 25'
 RNAV (GPS) Rwy 29
 VOR-B²

NA when local weather not available.

¹Category D, 800-2½.

²Category A, 1500-2.

EPHRATA, WA

EPHRATA MUNI RNAV (GPS) Rwy 3'
 RNAV (GPS) Rwy 21'
 VOR/DME Rwy 3'
 VOR Rwy 21'

NA when local weather not available.

¹Category D, 1300-3.

²Category C, 800-2½; Category D, 1300-3.

NAME ALTERNATE MINIMUMS

EUGENE, OR

MAHLON-SWEET

FIELD ILS or LOC/DME Z Rwy 16R¹
 ILS or LOC Y Rwy 16R¹
 ILS or LOC/DME Rwy 16L¹²
 RNAV (GPS) Rwy 34R²
 VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Categories A,B, 900-2; Category C, 900-2½;
 Category D, 900-2¾.

EVANSTON, WY

EVANSTON-UINTA COUNTY

BURNS FIELD ILS or LOC/DME Rwy 23
 Categories C,D, 700-2.

EVERETT, WA

SNOHOMISH COUNTY(PAINE

FIELD) ILS or LOC/DME Rwy 16R
 NA when control tower closed.
 NA when local weather not available.

FORT BENTON, MT

FORT BENTON RNAV (GPS) Rwy 23
 NA when local weather not available.

GILLETTE, WY

GILLETTE-CAMPBELL

COUNTY ILS or LOC Rwy 34¹²
 RNAV (GPS) Rwy 16³
 RNAV (GPS) Rwy 34⁴
 VOR/DME Rwy 16⁵
 VOR/DME Rwy 34¹

¹Categories A,B, 900-2; Category C, 900-2½;
 Category D, 1000-3.

²NA when control tower closed.

³Categories A,B,C, 800-2¾; Category D,
 1000-3.

⁴Categories A,B,C,D, 1200-4.

⁵Category C, 800-2¾; Category D, 1000-3.

GLASGOW, MT

WOKAL FIELD/

GLASGOW INTL VOR Rwy 12
 Categories A,B, 900-2; Categories C,D, 900-3.
 VOR/DME standard.

GLENDEIVE, MT

DAWSON

COMMUNITY NDB or GPS Rwy 12,900-2¾

GOODING, ID

GOODING MUNI RNAV (GPS) Rwy 7
 RNAV (GPS) Rwy 25

NA when local weather not available.

NAME ALTERNATE MINIMUMS

GRAY AAF (KGRF)

FORT LEWIS, WA NDB Rwy 15
 NDB Rwy 33
 ILS or LOC Rwy 15
 COPTER NDB Rwy 15

NA when control tower closed.

GREAT FALLS, MT

GREAT FALLS INTL NDB Rwy 34
 Category D, 800-2¼.

GREYBULL, WY

SOUTH BIG HORN COUNTY RNAV (GPS)-A
 RNAV (GPS) Rwy 33¹

NA when local weather not available.

¹Category D, 1200-3.

HAILEY, ID

FRIEDMAN

MEMORIAL RNAV (GPS) W Rwy 31
 Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT

HAVRE CITY-COUNTY VOR Rwy 26
 Categories A, B, 900-2; Category C, 900-2¾;
 Category D, 900-3.

HELENA, MT

HELENA RGNL ILS or LOC Y Rwy 27¹²
 ILS or LOC Z Rwy 27¹²
 LOC/DME BC-C¹³
 NDB-D¹⁴
 RNAV (GPS) Y Rwy 9⁵
 RNAV (GPS) Rwy 23⁶
 RNAV (GPS) X Rwy 27⁵
 RNAV (RNP) Z Rwy 9⁷
 RNAV (RNP) Y Rwy 27⁷
 RNAV (RNP) Z Rwy 27⁷⁹
 VOR-A⁸
 VOR/DME-B⁶

¹NA when control tower closed.

²Categories A, B, 1600-2; Categories C, D, E,
 1600-3.

³Categories A, B, 1300-2; Categories C, D,
 1300-3.

⁴Category A, 1200-2.

⁵Categories A, B, 1600-2; Categories C, D,
 1600-3.

⁶Categories A, B, 900-2; Category C, 900-2¾;
 Category D, 900-3.

⁷NA when local weather not available.

⁸Categories A, B, 2900-2; Categories C, D,
 2900-3.

⁹1000-4.

NAME **ALTERNATE MINIMUMS**
HOQUIAM, WA
 BOWERMAN RNAV (GPS) Rwy 24¹
 VOR/DME Rwy 24²
 VOR Rwy 6¹

¹Category D, 800-2½.

²Categories A,B, 900-2; Category C, 900-2¾;
 Category D, 900-3.

IDAHO FALLS, ID
 IDAHO FALLS RGNL ILS or LOC Rwy 20¹
 LOC BC Rwy 2²
 RNAV (GPS) Rwy 20³
 VOR Rwy 20³

¹ILS, Category E, 700-2½. LOC, Category E,
 800-2½.

²Category E, 800-2½.

³NA when local weather not available.

JACKSON, WY
 JACKSON HOLE RNAV (GPS) X Rwy 1¹
 RNAV (GPS) Y Rwy 19¹
 RNAV (RNP) Y Rwy 1, 10681200-4
 VOR/DME Rwy 1²
 VOR/DME Rwy 19³

¹Categories A,B, 1200-2; Categories C,D,
 1200-3.

²Categories A,B,1000-2; Categories C,D,
 1000-3.

³Categories A,B,1400-2; Categories C,D,
 1400-3.

JEROME, ID
 JEROME COUNTY RNAV (GPS) Rwy 9
 RNAV (GPS) Rwy 27¹
 VOR/DME-A

NA when local weather not available.

¹Categories A, B, 1300-2; Categories C, D,
 1300-3.

JOHN DAY, OR
 GRANT COUNTY RGNL/
 OGILVIE FIELD RNAV (GPS) Y Rwy 9
 Category B, 900-2; Category C, 900-2½.

KALISPELL, MT
 GLACIER PARK INTL ILS or LOC Rwy 2¹
 RNAV (RNP) Y Rwy 2²
 RNAV (RNP) Rwy 20, 800-2½²

¹Categories C, D, 700-2.

²NA when local weather not available.

KELSO, WA
 SOUTHWEST
 WASHINGTON RGNL RNAV (GPS) Rwy 12
 Categories A, B, 900-2.

NAME **ALTERNATE MINIMUMS**
KLAMATH FALLS, OR
 KLAMATH FALLS ILS or LOC Rwy 32¹
 RNAV (GPS) Rwy 14²
 VOR/DME or TACAN Rwy 14³
 VOR/DME or TACAN Rwy 32⁴
 VOR or GPS-B,2100-3

¹Categories A,B, 900-2; Category C, 900-2¾;
 Category D, 1000-3. LOC, DME required.

²Categories A,B, 900-2; Category C, 900-2¾;
 Category D, 1000-3.

³Categories C,D, 1000-3; Category E, NA.

⁴Category B, 900-2; Categories C,D, 1000-3;
 Category E, 1500-3.

LAKEVIEW, OR
 LAKE COUNTY VOR/DME-A
 Categories A,B, 900-2; Category C, 900-2½;
 Category D, 900-2¾.

LEWISTON, ID
 LEWISTON-NEZ PERCE
 COUNTY ILS Rwy 26¹²
 RNAV (GPS) Y Rwy 8³
 RNAV (GPS) Y Rwy 12³
 RNAV (GPS) Y Rwy 26³
 RNAV (RNP) Rwy 30⁴
 RNAV (RNP) Z Rwy 8⁴
 RNAV (RNP) Z Rwy 12⁴
 RNAV (RNP) Z Rwy 26⁴
 VOR Rwy 8⁵
 VOR Rwy 26³

¹ILS, Category D, 800-2½.

²NA when control tower closed.

³Category D, 800-2½.

⁴NA when local weather not available.

⁵Categories A, B, 1100-2; Categories C, D,
 1100-3.

LEWISTOWN, MT
 LEWISTOWN MUNI RNAV (GPS) Rwy 7
 VOR Rwy 7

Category D, 800-2½.

LIVINGSTON, MT
 MISSION FIELD VOR/DME-B¹
 VOR-A²

¹Categories A, B, 900-2; Category C, 900-2½;
 Category D, 1000-3.

²Categories A, B, 2200-2; Categories C,D,
 2200-3.

NAME ALTERNATE MINIMUMS

MC CALL, ID

MC CALL MUNI RNAV (GPS) Rwy 16¹
RNAV (GPS) Y Rwy 34²
RNAV (GPS) Z Rwy 34³⁴

¹Category C, 900-2½.

²Categories A, B, 1600-2; Categories C, D, 1600-3.

³NA when local weather not available.

⁴Category C, 900-2½; Category D, 1000-3.

MC MINNVILLE, OR

MC MINNVILLE MUNI ILS or LOC Rwy 22
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22
VOR/DME-B

NA when local weather not available.

Category D 800-2¼.

MEDFORD, OR

ROGUE VALLEY INTL-
MEDFORD ILS or LOC/DME Rwy 14¹²
LOC/DME BC-B²³
RNAV (GPS)-D³
RNAV (GPS) Rwy 14⁴
VOR-A⁵
VOR/DME-C³
VOR/DME Rwy 14⁵

¹ILS, Categories A, B, C, 700-2; Category D, 900-2½. LOC, Category D, 900-2½.

²NA when control tower closed.

³Categories A, B, 2300-2; Categories C, D, 2300-3.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

⁵Categories A, B, 1400-2; Category C, D, 1400-3.

MISSOULA, MT

MISSOULA INTL ILS Rwy 11¹
RNAV (GPS) Y Rwy 11²³
RNAV (RNP) Z Rwy 11², 800-2½
VOR/DME or GPS-A, 2000-3
VOR/DME or GPS-B, 2000-3

¹ILS, 1600-6. LOC, NA.

²NA when local weather not available.

³Categories A, B, 1900-2; Categories C, D, 1900-3.

NAME ALTERNATE MINIMUMS

MOSES LAKE, WA

GRANT COUNTY INTL ... ILS or LOC Rwy 32R¹
NDB Rwy 32R²
RNAV (GPS) Rwy 4¹
RNAV (GPS) Rwy 14L¹
RNAV (GPS) Rwy 22¹
VOR Rwy 4²
VOR -1 Rwy 14L²
VOR -3 Rwy 14L²
VOR Rwy 22²
VOR Rwy 32R²

¹NA when local weather not available.

²NA when control tower closed.

NEWCASTLE, WY

MONDELL FIELD VOR or GPS Rwy 31
NA except for operators with approved weather reporting service.
Categories A, B, 900-2; Categories C, D, 900-3.

NORTH BEND, OR

SOUTHWEST OREGON
RGNL ILS or LOC Rwy 4¹
NDB or GPS Rwy 4²
VOR or GPS-A³
VOR/DME or GPS-B⁴
VOR/DME Rwy 4⁴

¹ILS, Categories A, B, 800-2; Category C, 900-2¼, Category D, 1000-3. LOC, Category C, 900-2¼, Category D, 1000-3.

²Category C, 900-2¼; Category D, 1000-3.

³Categories A, B, 1100-2; Categories C, D, 1100-3.

⁴Categories C, D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG RNAV (GPS) Rwy 7
NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL ILS or LOC Rwy 17¹²³
RNAV (GPS) Rwy 17²
RNAV (GPS) Rwy 35²
VOR-A²⁴
VOR/DME Rwy 35²

¹ILS, Categories C, D, 700-2.

²NA when local weather not available.

³NA when control tower closed.

⁴Category D, 800-2¼.

ONTARIO, OR

ONTARIO MUNI RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32

NA when local weather not available.

NAME ALTERNATE MINIMUMS

PASCO, WA

TRI-CITIES ILS or LOC Rwy 21R¹²
 RNAV (GPS) Rwy 3L
 RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 21R
 RNAV (GPS) Rwy 30
 VOR Rwy 21R³
 VOR/DME Rwy 30

NA when local weather not available.

¹NA when control tower closed.

²ILS, Categories A,B,C, 700-2; Category D,
 700-2½. LOC, Category D, 800-2½.

³Category D, 800-2½.

PENDLETON, OR

EASTERN OREGON RGNL AT

PENDLETON ILS or LOC/DME Rwy 25¹
 RNAV (GPS) Rwy 7
 RNAV (GPS) Rwy 11
 RNAV (GPS) Rwy 25
 RNAV (GPS) Rwy 29
 VOR Rwy 7

NA when local weather not available.

¹ILS, NA when control tower closed.

PINEDALE, WY

PINEDALE/RALPH WENZ

FIELD NDB-A¹
 RNAV (GPS) Rwy 11²
 RNAV (GPS) Rwy 29²

NA when local weather not available.

¹Category C, 800-2½; Category D, 800-2½.

²Category D, 800-2½.

POCATELLO, ID

POCATELLO RGNL ILS or LOC Rwy 21¹
 RNAV (GPS) Rwy 3²
 RNAV (GPS) Rwy 21²

¹NA when control zone not in effect.

²NA when local weather not available.

PORT ANGELES, WA

WILLIAM R

FAIRCHILD INTL ILS or LOC Rwy 8
 RNAV (GPS) Rwy 8¹
 RNAV (GPS) Rwy 26

NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D,
 1000-3.

NAME ALTERNATE MINIMUMS

PORTLAND, OR

PORTLAND INTL ILS or LOC Rwy 10L¹
 ILS or LOC Rwy 10R²
 ILS or LOC Rwy 28L³
 ILS or LOC Rwy 28R⁴
 LOC/DME Rwy 21⁵
 RNAV (GPS) Rwy 10L⁵
 RNAV (GPS) Rwy 10R⁵
 RNAV (GPS) Rwy 12⁷
 RNAV (GPS) Rwy 28L⁸
 RNAV (GPS) Rwy 28R⁸
 VOR/DME Rwy 21⁵
 VOR-A⁹
 VOR Rwy 28R⁵

¹ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.

²Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3; Category E, 1100-3.

³ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3; Category E, 1100-3. LOC, Category D, 1000-3; Category E, 1100-3.

⁴ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.

⁵Category D, 1000-3.

⁶Categories A,B,C 800-5; Category D, 1000-5.

⁷NA when local weather not available.

⁸Category D, 1000-3.

⁹Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

PORTLAND-HILLSBORO .. ILS or LOC Rwy 12¹
 RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 30

NA when local weather not available.

¹Categories A, B, 1500-2; Categories C, D, 1500-3.

PORTLAND-TROUTDALE NDB or GPS-A
 Categories A,B, 1100-2; Category C, 1100-3;
 Category D, 1300-3.

PULLMAN/MOSCOW, WA

PULLMAN/MOSCOW

MUNI RNAV (GPS) Rwy 5,800-2½

RAWLINS, WY

RAWLINS MUNI/

HARVEY FIELD RNAV (GPS) Rwy 22¹
 VOR/DME Rwy 22²

¹Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2½.

²Categories A, B, 1000-2; Category C, 1000-2½; Category D, 1000-3.

NAME ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD ILS or LOC Rwy 22¹
VOR/DME Rwy 22²

¹ILS, LOC, Category D, 800-2½; Category E,
800-2½.

²Category A, B, 1000-2; Category C, 1000-2¾;
Category D, E, 1000-3.

RENTON, WA

RENTON MUNI NDB Rwy 16¹
RNAV (GPS) Y Rwy 16²
RNAV (GPS) Z Rwy 16³

NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D,
1000-3.

²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

³Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON
COUNTY RNAV (GPS) Rwy 35
NA when local weather not available.
Category D, 800-2½.

RICHLAND, WA

RICHLAND NDB Rwy 19¹
RNAV (GPS) Rwy 19¹
RNAV (GPS) Rwy 26¹
VOR/DME-A²
VOR Rwy 26¹

¹Category D, 800-2½.

²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.

RIVERTON, WY

RIVERTON RGNL ILS or LOC Rwy 28
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28
VOR Rwy 10
VOR Rwy 28

NA when local weather not available.

ROSEBURG, OR

ROSEBURG RGNL RNAV (GPS)-B
NA when local weather not available.
Categories A, B, 1200-2; Category C, 1200-3;
Category D, 1400-3.

SALEM, OR

MCNARY FIELD ILS or LOC Rwy 31¹²
LOC/DME Rwy 31³
RNAV (GPS) Rwy 31¹³

¹NA when local weather not available.

²ILS, Categories A, B, 800-2; Category C,
800-2½; Category D, 800-2½. LOC, Category
C, 800-2½; Category D, 800-2½.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL
AIRPARK VOR/DME or GPS-A
Category B, 900-2; Category C, 1000-2¾;
Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY
INTL ILS Rwy 13R¹
ILS Rwy 31L²
LOC/DME Rwy 13R³
RNAV (GPS) Y Rwy 13R⁴
RNAV (RNP) Z Rwy 13R⁵

¹ILS, Category A, 800-2; Category B, 900-2;
Category C, 900-2½; Category D, 1000-3.

²Category A, 800-2; Category B, 900-2;
Category C, 900-2½; Category D, 1000-3.

³Category B, 900-2; Category C, 900-2½;
Category D, 1000-3.

⁴Category B, 900-2; Category C, 900-2¾;
Category D, 1000-3.

⁵Categories A, B, C, D, 800-2½.

SHERIDAN, WY

SHERIDAN
COUNTY ILS or LOC/DME Rwy 32
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.
Category D, 800-2½.

SIDNEY, MT

SIDNEY-RICHLAND MUNI NDB Rwy 1¹
NDB Rwy 19²
RNAV (GPS) Rwy 1³
RNAV (GPS) Rwy 19³

NA when local weather not available.

¹Categories A, B, 900-2; Category C, 900-2½;
Category D, 900-2¾.

²Categories A, B, 1000-2; Category C, 1000-
2¾; Category D, 1000-3.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SPOKANE, WA

FELTS FIELD ILS/DME Rwy 21R¹
RNAV (GPS)-A²
RNAV (GPS) Rwy 3L²
VOR Rwy 3L^{3,4}

- ¹Categories A,B, 1000-2; Category C, 1000-2½.
²Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.
³Categories A, B, 1000-2; Categories C, D, 1000-3.
⁴NA when local weather not available.

SPOKANE INTL ILS or LOC Rwy 3¹
ILS or LOC/DME Rwy 21¹
RNAV (GPS) Rwy 3²
VOR Rwy 3³

- ¹ILS, Category D, 700-2.
²Category D, 800-2½.
³Category E, 800-2½.

TACOMA, WA

TACOMA NARROWS ILS Rwy 17¹
NDB Rwy 35¹
RNAV (GPS) Rwy 17^{1,2}
RNAV (GPS) Rwy 35^{2,3}

- ¹NA when control tower closed.
²Category D, 800-2½.
³NA when local weather not available.

THE DALLES, OR

COLUMBIA GEORGE RGNL/
THE DALLES MUNI RNAV (GPS)-A
Categories A,B, 1100-2; Category C, 1100-3;
Category D, 1200-3.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY
RGNL ILS or LOC Rwy 25¹
NDB Rwy 25
RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25
VOR Rwy 7²

- NA when local weather not available.
¹ILS, Category D, 700-2; Category E, 900-3.
LOC, Category E, 900-3.
²Category C, 800-2½; Category D, 800-2½.

NAME ALTERNATE MINIMUMS

WALLA WALLA, WA

WALLA WALLA RGNL ILS or LOC Rwy 20¹
NDB Rwy 20, 1000-3
RNAV (GPS) Rwy 2^{2,3}
RNAV (GPS) Rwy 16²
RNAV (GPS) Rwy 20²
VOR/DME Rwy 2²

- ¹ILS, LOC, Categories A,B, 1100-2; Categories C, D, 1100-3.
²Category D, 800-2½.
³NA when local weather not available.

WENATCHEE, WA

PANGBORN
MEMORIAL ILS Y Rwy 12, 1300-4
VOR/DME-C^{1,2}
VOR/DME-A³

- ¹NA when local weather not available.
²Categories A, B, 1500-2; Categories C, D, 1500-3.
³Categories A, B, 2000-2; Categories C, D, 2000-3.

WOLF POINT, MT

L.M. CLAYTON RNAV (GPS) Rwy 11
RNAV (GPS) Rwy 29

NA when local weather not available.

WORLAND, WY

WORLAND MUNI VOR or GPS Rwy 16
Categories C,D, 800-2½.

YAKIMA, WA

YAKIMA AIR TERMINAL/
MCALLISTER FIELD ILS Y Rwy 27^{1,2}
ILS Z Rwy 27^{1,3}
LOC/DME BC-B^{1,4}
RNAV (GPS) Y Rwy 27⁵
RNAV (GPS) Z Rwy 27⁴
VOR/DME or TACAN Rwy 27⁶
VOR-A⁷

- ¹NA when control tower closed.
²ILS, Categories A, B, 600-2½; Category C, 700-2½; Category D, 800-2½.
³Category C, 700-2; Category D, 800-2½
⁴Category D, 800-2½.
⁵Category C, 800-2½; Category D, 800-2½.
⁶Categories A, B, 1100-2; Categories C, D, 1100-3.
⁷Category C, 800-2½; Category D, 800-2½.


RADAR INSTRUMENT APPROACH MINIMUMS

CHEYENNE, WY

Amdt 1B, MAY 8, 2008 (FAA)

ELEV 6159

CHEYENNE RGNL/JERRY OLSON FIELD



RADAR - 124.55 263.075   NA

				DA/ MDA-VIS	HAT/ HATH/ HAA CEIL-VIS		DA/ MDA-VIS	HAT/ HATH/ HAA CEIL-VIS
PAR	27	3.0°/55/918	ABCDE	6321/24	200 (200-½)			
ASR	9		ABC	6500-1	357 (400-1)	DE	6500-1¼	357 (400-1¼)
	27		ABC	6520/24	399 (400-½)	DE	6520/50	399 (400-1)
CIR	ALL		AB	6660-1	501 (600-1)	C	6660-1½	501 (600-1½)
			D	6720-2	561 (600-2)	E	6960-2¾	801 (900-2¾)

For inoperative MALSR increase, PAR 27 category E visibility to RVR 4000, ASR 27 category D visibility to RVR 6000 and ASR 27 category E visibility to 1½. PAR not available when ASR out of service.

GRAY AAF (KGRF), FORT LEWIS, WA (Amdt 1 10098 USA)

ELEV 300

RADAR - (E) 128.2 139.925 239.0 317.4   NA

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
PAR ¹³	15	3.0°/55/853	ABCD	499/24	200	(200-½)
	33 ²	3.0°/39/730	ABCD	500-½	200	(200-½)

¹Opr Mon-Fri 1600-0759Z++, exc federal holidays. POC DSN 357-4953 or C253-967-4953. Svc incl PAR and apch mnt of ILS and NDB. ²PAR not authorized when R6703D is active. ³Circling not authorized.

OPS 138.6

Contact Seattle approach for vectors to Final on 120.1 290.9

Missed Approach:

Rwy 15: Climb to 1000, then climbing left turn to 2000 via heading 270° for RADAR vectors; or when directed by ATC, climb to 1000, then climbing left turn to 2000 direct GRF NDB and hold NW, RT, 147° inbound (ADF REQUIRED).

Rwy 33: Climb to 1000, then climbing left turn to 2000 via heading 270° for RADAR vectors; or when directed by ATC, climb to 2000 direct GRF NDB and hold NW, RT, 147° inbound (ADF REQUIRED). LOST COMMUNICATIONS (ALL RWYS): As directed by ATC on initial contact.

RADAR INSTRUMENT APPROACH MINIMUMS**OAK HARBOR (OKH), WA**

Amdt 1A, Mar 12, 2009 (FAA)

ELEV 193**A J EISENBERG****RADAR - 118.2 285.65 ▽ ▲ NA**

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DA/ MDA-VIS</u>	<u>HAT/ HATH/ HAA</u>	<u>CEIL-VIS</u>
ASR	7		AB CD	620-1 NA	427	(500-1)
CIR	All Rwy		A B CD	620-1 660-1 NA	427 467	(500-1) (500-1)

When local altimeter setting not received, use Whidbey Island NAS altimeter setting and increase all MDAs 40 feet. Circling north of Rwy 7-25 NA at night. Visibility reduction by helicopters NA.

RADAR INSTRUMENT APPROACH MINIMUMS

WHIDBEY ISLAND NAS (KNUW), (AULT FLD) WA (09071 USN)

ELEV 47

RADAR - (E) 126.05x 126.85x 266.8x 299.6x 310.8x 322.5x 327.0x 343.75x ▽

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>
PAR ¹	25 ^{2 3 10}	3.0°/40/718	ABCDE	228-½	200	(200-½)
	14 ^{5 11}	3.0°/49/947	ABCDE	139-¼	100	(100-¼)
	7	3.0°/50/961	ABCDE	125-½	100	(100-½)
	32 ^{2 10}	3.0°/34/776	ABCDE	147-¼	100	(100-¼)
W/O GS	25 ^{3 6}		ABC	480-¾	452	(500-¾)
			DE	480-1	452	(500-1)
	14 ^{7 11}		AB	340-½	301	(300-½)
			CDE	340-¾	301	(300-¾)
	7		ABCDE	300-1	275	(300-1)
	32 ^{8 10}		ABC	500-¾	453	(500-¾)
			DE	500-1	453	(500-1)
ASR	7		AB	440-1	415	(400-1)
			CD	440-1¼	415	(400-1¼)
			E	440-1½	415	(400-1½)
	14 ^{4 11}		AB	600-½	561	(600-½)
			C	600-1	561	(600-1)
			D	600-1¼	561	(600-1¼)
			E	600-1½	561	(600-1½)
	32 ^{8 11}		AB	680-½	633	(700-½)
			C	680-1¼	633	(700-1¼)
			D	680-1½	633	(700-1½)
			E	680-1¾	633	(700-1¾)
	25 ⁴		AB	760-½	732	(800-½)
			C	760-1½	732	(800-1½)
			D	760-1¾	732	(800-1¾)
			E	760-2	732	(800-2)
CIR ⁹			A	780-1	733	(800-1)
			B	800-1¼	753	(800-1¼)
			C	800-2¼	753	(800-2¼)
			D	860-2¾	813	(900-2¾)
			E	1100-3	1053	(1100-3)

¹No-NOTAM MP: PAR 1600-0800Z++ Mon. ²When ALS inop, increase vis CAT ABCDE to ¾ mile.

³Caution: Trees 265' MSL, 3270' from THLD, 1647' right of RCL. ⁴When ALS inop, increase vis CAT AB to 1 mile, CAT C to 1¼ miles, CAT D to 2 miles, CAT E to 2¼ miles. ⁵When ALS inop, increase CAT ABCDE vis to ½ mile. ⁶When ALS inop, increase vis CAT ABC to 1¼ miles, CAT DE to 1½ miles. ⁷When ALS inop, increase vis CAT ABCDE to 1 mile. ⁸When ALS inop, increase vis CAT ABC to 1¼ mile, CAT DE to 1½ mile. ⁹When CIRCLING to RWY 25 or 32, increase vis CAT A to 1¼ mile. ¹⁰Amdt 2. ¹¹Amdt 1.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16**, Use LUNDI DEPARTURE. **Rwy 34**, use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16**, turn right. **Rwy 34**, turn left. All aircraft climb direct CVO VOR/DME and continue climb in CVO VOR/DME holding pattern, (E, right turns, 261° inbound) to cross CVO VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, std. w/min. climb of 417' per NM to 9000, or 2800-3 for climb in visual conditions. **Rwy 17**, std. w/min. climb of 321' per NM to 10200, or 2800-3 for climb in visual conditions. **Rwy 22**, NA - obstacles. **Rwy 35**, std. w/min. climb of 369' per NM to 9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 35**, climbing right turn to 10200 via heading 130° and CPN VOR/DME R-340 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NAME TAKE-OFF MINIMUMS

BOWMAN FIELD(CON'T)

Rwy 17, climbing left turn to 10200 via heading 100° and CPN VOR/DME R-335 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NOTE: **Rwy 17**, multiple trees beginning 865' from departure end of runway, 243' left of centerline, up to 70' AGL/5097' MSL. Rod on hangar 570' from departure end of runway, 278' left of centerline, 54' AGL/5054' MSL. Multiple trees beginning 787' from departure end of runway, 165' right of centerline, up to 70' AGL/5098' MSL. Multiple transmission lines beginning 4602' from departure end of runway, 1664' right of centerline, 80' AGL/5159' MSL. **Rwy 35**, multiple transmission lines beginning 2242' from departure end of runway, 964' left of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA - Obstacles. DEPARTURE PROCEDURE: Use JATTS DEPARTURE.

ARLINGTON, WA**ARLINGTON MUNI**

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwy 16, climb direct to WATON LOM. **Rwys 29, 34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR**ASTORIA RGNL**

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8, 31**, turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA**AUBURN MUNI**

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR**AURORA STATE**

DEPARTURE PROCEDURE: **Rwy 17**, turn right,

thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL.

Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL. Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway,

163' left of centerline, up to 138' AGL/329' MSL. Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT**BAKER MUNI**

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY, OR**BAKER CITY MUNI**

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

Rwy 13, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17, NA. Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C, D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8, 13**, turn left.

Rwys 26, 31, 35, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA**BELLINGHAM INTL**

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34**, climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16**, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL.

Rwy 34, lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. Multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR**BEND MUNI (BDN)****AMDT 4 09183 (FAA)**

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY**MILEY MEMORIAL FIELD**

TAKE-OFF MINIMUMS: **Rwys 8, 26**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 8400 via BPI R-124. **Rwy 31**, climb to 10800 via BPI R-320 thence all aircraft climb on course.

BILLINGS, MT

BILLINGS LOGAN INTL (BIL)
AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R**, NA- Obstacles.
DEPARTURE PROCEDURE: **Rwy 10L**, Climb heading
098° to 4600 before turning right.

NOTE: **Rwy 10L**, fence 466' from departure end of
runway, 535' right of centerline, 11' AGL/3511' MSL,
cars on road, beginning from 624' from departure end of
runway, 427' right of centerline, 15' AGL/3523' MSL,
ground beginning 21' from departure end of runway, 499'
right of centerline, 0' AGL/3505' MSL. **Rwy 25**, airport
security fence, abeam departure end of runway, 500' left
of centerline, 11' AGL/3672' MSL to 1200' from
departure end of runway, abeam rwy centerline, 11' AGL/
3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or
higher assigned altitude) direct IDA VOR/DME, before
proceeding on course. **Rwy 19**, climb to 7000 (or higher
assigned altitude) direct PIH VORTAC, before
proceeding on course.

BOISE, ID

BOISE AIR TERMINAL / GOWEN FIELD (BOI)
AMDT 6 10042 (FAA)

DEPARTURE PROCEDURE: Use GOWEN
DEPARTURE.

BOZEMAN, MT

GALLATIN FIELD (BZN)
AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.
DEPARTURE PROCEDURE: **Rwys 12, 30**, use
BOZEMAN DEPARTURE.

BREMERTON, WA

BREMERTON NATIONAL (PWT)
AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. w/min.
climb of 410' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 1**, Climbing right
turn to 6000 direct CAN NDB, Thence... **Rwy 19**, Climb
to 6000 direct CAN NDB, thence...
...Continue climb-in-hold (S, LT, 013° inbound) to 6000
before proceeding on course.

NOTES: **Rwy 1**, Multiple bushes 380' from departure end
of runway, 522' left of centerline, up to 17' AGL/456'
MSL, multiple trees and poles beginning 1210' from
departure end of runway, 622' left of centerline, up to 100'
AGL/561' MSL, multiple trees and bushes 1012' from
departure end of runway, 708' right of centerline, up to
100' AGL/495' MSL. **Rwy 19**, Multiple trees beginning
176' from departure end of runway, 337' left of centerline,
up to 100' AGL/514' MSL, multiple trees beginning 371'
from departure end of runway, 277' right of centerline, up
to 100' AGL/548' MSL.

BUFFALO, WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:

Rwys 13, 31, 2400-2 or std. with a min. climb of 300' per
NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std.
with a min climb of 300' per NM to 6000.

DEPARTURE PROCEDURE: Northbound aircraft:

Rwy 13, turn left. **Rwy 31**, climb straight ahead.

All aircraft proceed via SHR R-139 to SHR VORTAC.
Southbound aircraft: **Rwy 13**, climb straight ahead.

Rwy 31, turn right. **All aircraft** proceed via CZI R-319 to
CZI VOR/DME.

BURLEY, ID

BURLEY MUNI (BYI)

AMDT 5 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 24**, 300-1½ or std. w/min.
climb of 428' per NM to 4500.

DEPARTURE PROCEDURE: **Rwy 2**, climbing left turn
direct BYI VOR/DME, continue climb in BYI VOR/DME
holding pattern (hold Northwest right turns, 125°
inbound) to cross BYI VOR/DME at or above MEA for
route of flight. **Rwy 6**, climbing left turn direct BYI VOR/
DME, continue climb in BYI VOR/DME holding pattern
(hold Northwest right turns, 125° inbound) to cross BYI
VOR/DME at or above MEA for route of flight. **Rwy 20**,
climbing right turn direct BYI VOR/DME, continue climb
in BYI VOR/DME holding pattern (hold Northwest right
turns, 125° inbound) to cross BYI VOR/DME at or above
MEA for route of flight. **Rwy 24**, climbing right turn
direct BYI VOR/DME, continue climb in BYI VOR/DME
holding pattern (hold Northwest right turns, 125°
inbound) to cross BYI VOR/DME at or above MEA for
route of flight.

NOTE: **Rwy 2**, obstruction light on bridge 252' from DER,
513' left of centerline, 57' AGL/4195' MSL. Trees
beginning 686' from DER, 201' right of centerline, up to
35' AGL/4184' MSL. Tree 694' from DER, 375' left of
centerline, 29' AGL/4178' MSL. Obstruction light on
building 736' from DER, 188' left of centerline, 11' AGL/
4161' MSL. Tower 803' from DER, 590' left of centerline,
55' AGL/4204' MSL. Vehicles on road beginning 857'
from DER, 1' right of centerline, up to 17' AGL/4168'
MSL. Poles beginning 1226' from DER, 549' left of
centerline, up to 72' AGL/4222' MSL. Building vent 1240'
from DER, 164' left of centerline, 27' AGL/4177' MSL.
Stack 2206' from DER, 856' right of centerline, 86' AGL/
4236' MSL. Stack 2573' from DER, 614' left of
centerline, 86' AGL/4236' MSL. Elevators beginning
3980' from DER, 131' right of centerline, up to 133' AGL/
4283' MSL. **Rwy 6**, trees beginning 46' from DER, 172'
right of centerline, up to 14' AGL/4163' MSL. Rising
terrain beginning 49' from DER, 326' right of centerline,
up to 4149' MSL. Bush 150' from DER, 103' right of
centerline, 5' AGL/4147' MSL. Antenna 586' from DER,
398' left of centerline, 15' AGL/4165' MSL. Obstruction
light on bridge 1061' from DER, 80' right of centerline,
39' AGL/4179' MSL.

BURLEY MUNI (BYI) (CON'T)

Rwy 20, obstruction light pole 42' from DER, 124' left of centerline, 16' AGL/4170' MSL. Railroad beginning 65' from DER, 4' left of centerline, up to 23' AGL/4177' MSL. Sign 181' from DER, 121' right of centerline, 18' AGL/4172' MSL. Vehicles on road 162' from DER, 2' left of centerline, 17' AGL/4169' MSL. Vehicles on road beginning 335' from DER 348' right of centerline up to 17' AGL/4171' MSL. Pole 446' from DER, 210' right of centerline, 26' AGL/4180' MSL. Antenna 523' from DER, 337' right of centerline, 63' AGL/4217' MSL. Tree 586' from DER, 213' right of centerline, 28' AGL/4182' MSL. Trees beginning 2014' from DER, 339' left of centerline, up to 96' AGL/4251' MSL.

Rwy 24, vehicles on road beginning 25' from DER, 9' left of centerline, up to 15' AGL/4169' MSL. Fence 58' from DER, 8' left of centerline, 4' AGL/4154' MSL. Rising terrain beginning 69' from DER, 201' right of centerline, up to 4154' MSL. Railroad 152' from DER, 6' left of centerline, 23' AGL/4176' MSL. Trees beginning 427' from DER, 101' right of centerline, up to 69' AGL/4223' MSL. Vehicles on road beginning 509' from DER, 586' right of centerline, up to 15' AGL/4169' MSL. Railroad beginning 568' from DER, 288' right of centerline, up to 23' AGL/4177' MSL. Pole 735' from DER, 185' left of centerline, 18' AGL/4172' MSL. Light standard 824' from DER, 58' right of centerline, 23' AGL/4177' MSL. Antenna 1630' from DER, 112' left of centerline, 58' AGL/4212' MSL. Tower 2766' from DER, 175' left of centerline, 123' AGL/4282' MSL. Tower 3570' from DER, 158' right of centerline, 157' AGL/4312' MSL. Obstruction light on elevators beginning 3115' from DER, 164' left of centerline, up to 184' AGL/4344' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)
ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or std. with a min. climb of 245' per NM to 2300. **Rwy 22**, 1300-2 or std. with a min. climb of 210' per NM to 1800.

DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right heading 280°. **Rwy 28**, climb runway heading.

All aircraft climb to 2500 then turn right direct BVS NDB to cross BVS at or above 4500. Aircraft departing on BVS R-145 CWR-330 climb on course. All others continue climbing in BVS holding pattern (NW, right turns 113° inbound) to cross BVS at or above 6800 before proceeding on course.

NOTE: **Rwy 4**, tree 2581' from departure end of runway, 426' left of centerline, 100' AGL/212' MSL. Light pole 1489' from departure end of runway, 136' left of centerline 35' AGL/137' MSL. Bush 126' from departure end of runway, 430' right of centerline, 20' AGL/101' MSL. Building 2925' from departure end of runway, 130' left of centerline, 60' AGL/180' MSL.

BURNS, OR

BURNS MUNI

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30**, climbing left turn, thence...
...All aircraft departing on ILR R-072 CWR-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21**, pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT

BERT MOONEY

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15**, std. w/ min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29**, std. w/ min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 29**, climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 33**, climb direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence...

...climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15**, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL.

Rwy 29, multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6379' MSL. **Rwy 33**, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID

CALDWELL INDUSTRIAL

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30**, climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12**, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY

CASPER/NATRONA COUNTY INTL (CPR)
AMDT 3A 09155 (FAA)

DEPARTURE PROCEDURE: **Rwys 3,8,12**, turn left.

All other runways, turn right. **All aircraft** climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS, WA

CHEHALIS-CENTRALIA

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLM R-151 to OLM VORTAC before proceeding on course. **Rwy 34**, climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON FIELD

NOTE: **Rwy 13**, multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31**, multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

CODY, WY

YELLOWSTONE RGNL (COD)

AMDT 4 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, std. with a min. climb of 400' per NM to 8000' or 4200-3 for climb in visual conditions. **Rwy 22**, std. with a min. climb of 385' per NM to 7400' or 4200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to 5900, then climbing left turn via COD R-171 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight. **Rwy 22**, climb heading 218° to 6600, then climbing left turn via COD R-180 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 4**, trees beginning 100' from DER, 262' right of centerline, up to 79' AGL/5199' MSL. Rising terrain beginning 1723' from DER, 304' right of centerline, up to 5146' MSL. **Rwy 22**, poles beginning 1 NM from DER, 406' right of centerline, up to 60' AGL/5332' MSL. Rising terrain beginning 1 NM from DER, 109' right of centerline, up to 6235' MSL. Rising terrain beginning 5074' from DER, 131' left of centerline, up to 5428' MSL.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY BOYINGTON FIELD
(COE)

AMDT 9 10042 (FAA)

DEPARTURE PROCEDURE: use COEUR D'ALENE DEPARTURE.

COLSTRIP, MT

COLSTRIP (M46)

AMDT 2 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6** use CISPU (RNAV)

DEPARTURE: **Rwy 24**, use CONUK (RNAV)
DEPARTURE.

CONRAD, MT

CONRAD

DEPARTURE PROCEDURE: **Rwy 24**, climb runway heading to 4300, then continue climb on course.

CORVALLIS, OR

CORVALLIS MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in

visual conditions. **Rwy 27**, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 9, 17**, climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

Rwys 27, 35, climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up

to 153' AGL/383' MSL. Multiple trees and railroad beginning 670' from departure end of runway, 5' right of

centerline, up to 135' AGL/380' MSL. **Rwy 27**, obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.

COWLEY/LOVELL/BYRON, WY

NORTH BIG HORN COUNTY

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

DEER PARK, WA

DEER PARK (DEW)

AMDT 1 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, 300-1½ or std. with a min. climb of 455' per NM to 2500.

DEPARTURE PROCEDURE: **Rwy 4**, climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 16**, climb heading 164° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 22**, climbing left turn heading 155° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 34**, climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC.

NOTE: **Rwy 4**, aircraft 261' from DER, 511' left of centerline, up to 21' AGL/2210' MSL. Trees beginning 1809' from DER, 413' left of centerline, up to 109' AGL/2299' MSL. Aircraft 104' from DER, 186' right of centerline, up to 21' AGL/2200' MSL. Trees beginning 1667' from DER, 373' right of centerline, up to 116' AGL/2319' MSL. **Rwy 16**, trees beginning 31' from DER, 455' left of centerline, up to 109' AGL/2279' MSL. Trees beginning 2587' from DER, 621' right of centerline, up to 104' AGL/2264' MSL. **Rwy 22**, trees beginning 1461' from DER, 211' right of centerline, up to 90' AGL/2270' MSL. **Rwy 34**, aircraft 23' from DER, 218' left of centerline, up to 21' AGL/2230' MSL. Trees beginning 2678' from DER, 18' left of centerline, up to 165' AGL/2375' MSL. Vehicles beginning 74' from DER, 339' right of centerline, up to 15' AGL/2234' MSL. Trees beginning 2219' from DER, 260' right of centerline, up to 100' AGL/2382' MSL.

DILLON, MT

DILLON

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwestbound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

DOUGLAS, WY

CONVERSE COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23**, 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11**, climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23**, climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29**, climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CW R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CW R-199 9600; R-200 CW R-252 8000.

NOTE: **Rwy 5**, trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID

DRIGGS-REED MEMORIAL (DIJ)

AMDT 2 08157 (FAA)

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA

ORCAS ISLAND (ORS)

AMDT 1 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, NA-Terrain. **Rwy 34**, 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34**, climbing right turn to 2000 to intercept HUH VORTAC R-210 to HUH VORTAC, then climb-in-hold (hold South, Left turns, 352° inbound) to cross HUH VORTAC at or above 3800 before proceeding on course.

NOTE: **Rwy 34**, trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENBURG, WA

BOWERS FIELD

TAKE-OFF MINIMUMS: **Rwys 7, 11**, 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25**, 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29**, 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29**, climbing right turn direct ELN VORTAC. **Rwys 11, 25**, climbing left turn direct ELN VORTAC. **All aircraft**, continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA

EPHRATA MUNI (EPH)

AMDT 3 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 027° to 2300 before proceeding on course. **Rwy 11**, climb heading 112° to 2200 before proceeding on course. **Rwy 21**, climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn... **Rwys 34L, 34R**, climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD
 DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME.
Rwy 23, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.
All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD)
 TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.
 DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence...**Rwys 29, 34L/R**, climbing left turn, thence...
 ...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.
 NOTE: **Rwy 11**, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017
 DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA R-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.
 TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT

FORT BENTON
 TAKE-OFF MINIMUMS: **Rwys 5, 23**, std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.
 DEPARTURE PROCEDURE: **Rwys 5, 23**, for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY

FORT BRIDGER
 DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing; FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA

FRIDAY HARBOR
 TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.
 DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC)
 AMDT 4 09071 (FAA)
 TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21**, 600-3 or std. w/ min. climb of 425' per NM to 5200.
 DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21**, climb via heading 206° to 5200, before proceeding on course.
 NOTE: **Rwy 3**, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16**, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21**, fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30' AGL/4729' MSL. **Rwy 34**, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449' MSL. Vehicle on road 1610' from DER. 419' left of centerline, 15' AGL/4380' MSL.

GOODING, ID

GOODING MUNI (GNG)
 ORIG 08269 (FAA)
 DEPARTURE PROCEDURE: **Rwy 7**, climb heading 068° to 5000 before turning left. **Rwy 25**, climb heading 233° to 5600 before turning right.
 NOTE: **Rwy 7**, rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25**, vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 100'-Obstacles.

DEPARTURE PROCEDURE: **Rwy 25**, Use MELLR

DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

GRAY AAF (KGRF)

FORT LEWIS, WA AMDT 2, 10098

Rwy 15, Standard

Rwy 33, 300-1*

* Or standard with minimum climb of 430/NM to 600.

DEPARTURE PROCEDURE: **Rwy 15**, Climb heading 147° to 700 then climbing left turn direct GRF NDB.

Rwy 33, Climb direct GRF NDB. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GRF NDB climb on course. All others continue climb in GRF NDB holding pattern (hold NW, RT, 147° inbound) to cross GRF NDB at or above: 071° CW 134° bearing from GRF NDB, 8500; 261° CW 329° bearing from GRF NDB, 1500.

TAKE-OFF OBSTACLES: **Rwy 15**, Tree 100' AGL/439' MSL, 1848' from DER, 430' right of centerline. **Rwy 33**, Tree 100' AGL/479' MSL, 3465' from DER, 1338' left of centerline.

GREAT FALLS, MT

GREAT FALLS INTL

NOTE: **Rwy 7**, obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21**, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25**, windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1 or std. w/min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **All runways**, for departures on Gey bearings 320° CW 150°, climb in Gey NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures Gey bearings 150° CW 320° climb on course.

NOTE: **Rwy 25**, bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.

GUERNSEY, WY

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.

DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°. **All aircraft** continue on course.

HAILEY, ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3 w/min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 13**, Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.

NOTE: **Rwy 13**, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.

HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE, MT

HAVRE CITY-COUNTY (HVR)

AMDT 3 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, 300-1½ or std. w/min. climb of 217' per NM to 3300.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 3300 then climbing left turn to 8000 direct HVR VOR/DME thence...**Rwy 8**, climb heading 077° to 3300 then climbing left turn to 8000 via HVR R-025 to HVR VOR/DME thence...**Rwy 21**, climb heading 212° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...**Rwy 26**, climb heading 257° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...

...continue climb in hold in HVR VOR/DME holding pattern (hold west, right turns, 094° inbound) to cross HVR VOR/DME at or above 8000 before proceeding on course.

NOTE: **Rwy 3**, pole 2682' from DER, 1044' left of centerline, 21' AGL/2680' MSL. **Rwy 8**, obstruction light on windsock 59' from DER, 224' left of centerline, 9' AGL/2588' MSL. Tree 1192' from DER, 752' left of centerline, 25' AGL/2610' MSL. Tank 1.3 NM from DER, 2287' left of centerline, 57' AGL/2797' MSL. **Rwy 26**, light on windsock, 50' from DER, 225' right of centerline, 9' AGL/2589' MSL. Trees beginning 1617' from DER, 650' right of centerline, 25' AGL/2659' MSL.

HELENA, MT

HELENA RGNL (HLN)
ADMT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9**, std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 23**, 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16, 34, NA**.
DEPARTURE PROCEDURE: **Rwys 5, 9**, climbing left turn heading 270°. **Rwys 23, 27**, climbing right turn heading 020°. **All Aircraft**: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5**, ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23**, pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27**, building 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.
DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 110°. **Rwy 24**, climb runway heading.
All aircraft climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)
ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 450' per NM to 6300, or 500-2½ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 13**, climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31**, climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13**, road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31**, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL (IDA)
AMDT 4 09351 (FAA)

DEPARTURE PROCEDURE: **All aircraft** departing IDA R-160 CW R-040 climb on course. **All others** climb direct IDA VOR/DME. Continue climb in IDA holding pattern (South, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500 before proceeding on course.

NOTE: **Rwy 2**, pole 1039' from DER, 758' left of centerline, 42' AGL/4762' MSL. **Rwy 17**, trees, flagpole, building, light and vent on buildings, and vehicle on road beginning 29' from DER, 10' right of centerline, up to 84' AGL/4820' MSL. Trees and vent on building beginning 569' from DER, 22' left of centerline, up to 35' AGL/4760' MSL. Trees, antenna, and light poles beginning 1853' from DER, 26' right of centerline, up to 121' AGL/4851' MSL. **Rwy 35**, trees and railroad beginning 410' from DER, 503' right of centerline, up to 49' AGL/4769' MSL. Tree 1034' from DER, 715' left of centerline, 42' AGL/4762' MSL.

JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



JEROME, ID

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 500-1½ or std. w/ min. climb of 435' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.

NOTE: **Rwy 9**, bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL. **Rwy 27**, fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.

JOHN DAY, OR

GRANT COUNTY RGNL/OGILVIE FIELD
(GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, NA, Terrain.

DEPARTURE PROCEDURE: **Rwy 27**, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 27**, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.

KALISPELL, MT

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT
DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL (KLS)

AMDT 3 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, NA, terrain. **Rwy 30**, std. with a min. climb of 370' per NM to 1900 or 1900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 30**, climb heading 303° to 1900 then climbing right turn to 3900 direct LSO NDB. Continue climb in LSO NDB holding pattern (North, right turns, 175° inbound) to cross LSO NDB at or above 3900, then via BTG R-310 to BTG VORTAC. For climb in visual conditions: cross Southwest Washington Rgnl at or above 1800, then via BTG R-309 to BTG VORTAC.

NOTE: **Rwy 30**, light pole 22' from DER, 301' right of centerline, 30' AGL/49' MSL. Windssock 235' from DER, 348' left of centerline, 30' AGL/49' MSL. Rotating beacon 502' from DER, 425' left of centerline, 50' AGL/70' MSL. Multiple trees beginning 213' from DER, 530' right to 747' left of centerline, up to 136' AGL/155' MSL. Pole 964' from DER, 44' right of centerline, 30' AGL/50' MSL.

KEMMERER, WY

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA -Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/DME before proceeding on course. **Rwy 34**, climb via heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/DME before proceeding on course.

KLAMATH FALLS, OR

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400. **Rwy 32**, 2000-3 or std. with a min. climb of 320' per NM to 6300.

DEPARTURE PROCEDURE: **Rwys 14, 25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.

LA GRANDE, OR

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800. **Rwy 30**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34**, 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16**, 2000-3 or std. with a min. climb of 500' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 12, 16**, climbing left turn direct LGD NDB, thence; **Rwys 30, 34**, climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.



LAKEVIEW, OR

LAKE COUNTY

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKV R-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKV R-148 then via LKV R-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY

LARAMIE RGNL

DEPARTURE PROCEDURE: **Rwy 3**, turn left.

Rwys 12, 21, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.

LAUREL, MT

LAUREL MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32**, NA.

DEPARTURE PROCEDURE: **Rwy 22**, turn left.

All aircraft climb direct BIL VORTAC.

LEWISTON, ID

LEWISTON-NEZ PERCE COUNTY

DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, turn left direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN, MT

LEWISTOWN MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7, 12**, 900-2 or std. with a min. climb of 220' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 2, 30** turn left.

Rwys 7, 12, 20, turn right. **Rwy 25**, climb runway heading. **All aircraft** climb direct LWT VORTAC.

Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR

LEXINGTON

TAKE-OFF MINIMUMS: **Rwy 26**, std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8**, std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 8, 26**, for climb in visual conditions: cross Lexington Airport at or above 3600.

NOTES: **Rwy 8**, trees 1.42 NM from departure end of runway, 2386' left of centerline, 100' AGL/2159' MSL. Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT

LIBBY

TAKE-OFF MINIMUMS: **Rwy 33**, not authorized.

Rwy 15, use EYESE RNAV DEPARTURE.

LIVINGSTON, MT

MISSION FIELD (LVM)

AMDT 3 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA-Environmental.

DEPARTURE PROCEDURE: **Rwys 4, 22**, use LIVINGSTON DEPARTURE.

MADRAS, OR

MADRAS MUNI (S33)

AMDT 1 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwys 16, 22**, std. with a min. climb of 298' per NM to 3900 or 1300-3 for climb in visual conditions

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing left turn heading 210° to intercept DSD R-348 to DSD VORTAC, thence... **Rwy 16**, climbing right turn heading 210° to intercept DSD R-348 to DSD VORTAC, thence..., or for climb in visual conditions: cross Madras Muni airport at or above 3600 MSL, then proceed on DSD R-356 to DSD VORTAC, thence... **Rwy 22**, climb heading 216° to intercept DSD R-348 to DSD VORTAC, thence..., or for climb in visual conditions: cross Madras Muni airport at or above 3600 MSL, then proceed on DSD R-356 to DSD VORTAC, thence...

...continue climb-in-hold (hold North, right turns, 168° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 4**, vehicle on road beginning 7' from DER, 268' left of centerline, up to 15' AGL/2444' MSL. Airplane on tarmac 60' from DER, 252' right of centerline, 40' AGL/2469' MSL. Bush 383' from DER, 483' right of centerline, 19' AGL/2439' MSL. Vehicle on road 742' from DER, 112' right of centerline, up to 15' AGL/2447' MSL. **Rwy 16**, bushes beginning 196' from DER, 151' left of centerline, up to 14' AGL/2444' MSL. Airplane on tarmac 1357' from DER, 280' right of centerline 40' AGL/2479' MSL. **Rwy 34**, bushes beginning 92' from DER, 116' right of centerline, up to 17' AGL/2437' MSL. Airplane on tarmac 1396' from DER, 375' left of centerline, 40' AGL/2469' MSL.

MC CALL, ID

MC CALL MUNI (MYL)

AMDT 2 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL DEPARTURE.

MC CHORD FIELD (KTCM)

TACOMA, WA 10154

DEPARTURE PROCEDURE: **Rwy 16**, Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34**, Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.

TAKEOFF OBSTACLES: **Rwy 16**, Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34**, Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

MC MINNVILLE, OR

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1¼ or std. w/min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17**, std. w/min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22**, std. w/min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35**, climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17**, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22**, multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35**, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277' MSL.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Obstacles.

Rwy 14, std. w/min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32**, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29**, use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R**, antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL.

Rwy 18, pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windsock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L**, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12,30, 6700-3*

* Or standard with minimum climb of 270/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28**, 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct STI NDB. **Rwy 28**, climbing right turn direct STI NDB. All aircraft departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

Rwy 29, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11**, 70' AGL tree, 1225' from departure end of runway, 90' right of centerline.

NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5,17,23,35**, NA. **Rwy 13**, 200-1 or std. with a min. climb of 275' per NM to 4400.

Rwy 31, 300-1 or std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn.

All aircraft climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13**, fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31**, multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, NA. **Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2**, NA. **Rwy 16**, turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTH BEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 5 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, std. with a min. climb of 475' per NM to 1200 or 900-3 with a min. climb of 300' per NM to 900 or 1600-2½ for climb in visual conditions. **Rwy 13**, 400-2½ with a min. climb of 250' per NM to 2500 or 1600-2½ for climb in visual conditions. **Rwy 31**, 300-1½ or std. with a min. climb of 280' per NM to 300.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 043° to intercept OTH VORTAC R-337 northwest bound to 1800 before proceeding on course, or for climb in visual conditions cross Southwest Oregon Rgnl airport at or above 1500 before proceeding on course. **Rwy 13**, climb heading 132° to 1300 before proceeding on course, or for climb in visual conditions cross Southwest Oregon Rgnl airport at or above 1500 before proceeding on course. **Rwy 22**, climb heading 223° to 700 before proceeding on course. **Rwy 31**, climb heading 312° to 800 before proceeding on course.

NOTE: **Rwy 4**, Obstruction light on antenna 383' from DER, 207' right of centerline, 22' AGL/35' MSL. Ship 1000' from DER, on centerline, up to 140' MSL. Obstruction lights on bridge beginning 1886' from DER, 621' left of centerline, up to 93' AGL/93' MSL. Bridge beginning 4728' from DER, 580' right of centerline, 265' AGL/265' MSL. Obstruction lights on bridge beginning 4741' from DER, 948' right of centerline, up to 268' AGL/268' MSL. Transmission tower 5031' from DER, 677' right of centerline, 213' AGL/216' MSL. Trees beginning 1.2 NM from DER, 409' left of centerline, up to 150' AGL/549' MSL. Trees beginning 1.5 NM from DER, 1396' right of centerline, up to 150' AGL/629' MSL. Buildings beginning 1.7 NM from DER, 776' left of centerline, up to 73' AGL/393' MSL. **Rwy 13**, bushes beginning 38' from DER, 175' left of centerline, up to 16' AGL/33' MSL. Vehicle on road, 193' from DER, 237' left of centerline, up to 15' AGL/30' MSL. Bush 193' from DER, 145' right of centerline, up to 20' AGL/37' MSL. Trees beginning 346' from DER, 17' right of centerline, up to 150' AGL/349' MSL. Buildings beginning 504' from DER, 243' right of centerline, up to 86' AGL/106' MSL. Trees beginning 628' from DER, 6' left of centerline, up to 150' AGL/298' MSL. Antenna on building 712' from DER, 554' right of centerline, up to 51' AGL/68' MSL. Poles beginning 880' from DER, 13' right of centerline, up to 136' AGL/236' MSL. Spire 3467' from DER, 1122' left of centerline, 55' AGL/243' MSL. Pole 1.0 NM from DER, 159' left of centerline, up to 121' AGL/221' MSL. **Rwy 22**, ship 4050' from DER, on centerline, up to 140' MSL. **Rwy 31**, ship 1000' from DER, on centerline, up to 140' MSL. Trees beginning 5037' from DER, 15' left of centerline, up to 92' AGL/232' MSL. Trees beginning 5985' from DER, 1419' right of centerline, up to 108' AGL/188' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 300-1
DEPARTURE PROCEDURE: **Rwy 7**, climb via heading
071° to 2000, then climbing right turn direct CVV
VOR/DME. Continue climb on course. **Rwy 25**, climb
via heading 251° to 2100, then climbing left turn direct
CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7**, multiple trees beginning 1167' from DER,
212' left of centerline, up to 80' AGL/319' MSL. Multiple
trees beginning 664' from DER, 208' right of centerline,
up to 80' AGL/299' MSL. Fence 612' from DER, right
and left of centerline, 10' AGL/229' MSL. Multiple
bushes beginning 240' from DER, 64' left of centerline,
up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from
DER, left and right of centerline, up to 15' AGL/174'
MSL. Multiple trees beginning 2271' from DER, right
and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a
min. climb of 706' per NM to 600, or 2200-3 for climb in
visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading
085° to 1000 then climbing left turn direct OLM
VORTAC, thence... **Rwy 17**, climb heading 172° to 1200
then climbing right turn direct OLM VORTAC, thence...
or climb in visual conditions to cross OLM VORTAC at
or above 2300, thence... **Rwys 26, 35**, climbing right
turn direct OLM VORTAC, thence...

...continue climb in OLM VORTAC holding pattern
(south, right turn, 356° inbound) to cross OLM
VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, multiple trees beginning 880' from DER,
214' left of centerline, up to 100' AGL/343' MSL.

Multiple trees beginning 1636' from DER, 131' right of
centerline, up to 100' AGL/320' MSL. **Rwy 17**, multiple
trees beginning 1008' from DER, 24' left of centerline,
up to 100' AGL/490' MSL. Multiple trees beginning 752'
from DER, 3' right of centerline, up to 100' AGL/370'
MSL. **Rwy 26**, multiple trees and WSK on building
beginning 475' from DER, 595' left of centerline, up to
100' AGL/330' MSL. Multiple trees beginning 338' from
DER, 339' right of centerline, up to 100' AGL/309' MSL.
Rwy 35, multiple trees beginning 2176' from DER, 198'
left of centerline, up to 100' AGL/313' MSL. Multiple
trees and field light on hangar beginning 657' from
DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a
min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG
RNAV DEPARTURE. **Rwy 35**, NA.

ONTARIO, OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on
a heading between 010° CW to 141° from departure end
of runway or minimum climb of 280' per NM to 9600 for
all other courses.

NOTE: **Rwy 14**, multiple trees, poles, and buildings
beginning 90' from departure end of runway, 157' right
of centerline up to 120' AGL/2314' MSL. Multiple trees,
poles, and buildings beginning 502' from departure end
of runway, 506' left of centerline up to 120' AGL/2314'
MSL. **Rwy 32**, multiple trees, poles, and buildings
beginning 340' from departure end of runway, 405' left of
centerline up to 100' AGL/2458' MSL. Multiple trees,
poles, and buildings beginning 2' from departure end of
runway, 472' right of centerline up to 100' AGL/2431'
MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb
runway heading to 1000, thence... **Rwy 12**, turn left. All
others turn right. **All aircraft** climb direct PSC VOR/
DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON
(PDT)

AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34**, climbing
left turn direct PDT VORTAC, thence...

Rwys 11, 16, climbing right turn direct PDT VORTAC,
thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern
(West, left turn, 073° inbound) to cross PDT VORTAC
at or above MEA before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 232' from DER,
348' right of centerline, up to 100' AGL/1579' MSL.

Rwy 25, multiple antennas and terrain beginning 203'
from DER, 259' left of centerline, up to 13' AGL/1512'
MSL. **Rwy 29**, terrain 189' from DER, 247' left of
centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb
of 310' per NM to 8300, or 4900-3 for climb in visual
conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right
turn to 10000 via heading 190° and BPI R-040 to BPI
VOR/DME before proceeding on course. **Rwy 29**,
climbing left turn to 10000 via heading 230° and BPI
R-020 to BPI VOR/DME before proceeding on course
or for climb in visual conditions: cross Pinedale/Ralph
Wenz Field at or above 11800 before proceeding on
course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12**, multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/2251' MSL. **Rwy 30**, multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 7 09351 (FAA)

DEPARTURE PROCEDURE: use KNURL ONE DEPARTURE.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179 MSL. Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB. Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8,13,26,31**, use WATTR FIVE DEPARTURE.

PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 500-3 or std. w/min. climb of 400' per NM to 600. **Rwy 10L/R**, std. w/min. climb of 270' per NM to 2900. **Rwy 21**, std. w/min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence ... **Rwys 10L,10R**, climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence ... **Rwy 21**, climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence ... **Rwys 28L,28R**, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence ... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3**, signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L**, rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R**, pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21**, trees beginning 1319' from departure end of runway, 155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L**, trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND, OR (CON'T)

PORTLAND-HILLSBORO (HIO)
AMDT 6 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwy 2**, std. w/ min. climb of 215' per NM to 1900 or 1200-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 235' per NM to 2700 or 1200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct UBG VOR/DME... **Rwy 20**, climbing left turn direct UBG VOR/DME... **Rwys 2, 30**, climbing left turn direct UBG VOR/DME, or for climb in visual conditions cross Portland-Hillsboro airport at or above 1600 then proceed direct UBG VOR/DME...

...all aircraft climb in UBG VOR/DME holding pattern (West, right turns, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2**, vehicle on road 247' from DER, 1' right of centerline, up to 15' AGL/220' MSL. Terrain left and right of centerline beginning at DER up to 302' MSL.

Rwy 12, terrain left and right of centerline beginning at DER up to 296' MSL. Trees 1836' from DER, 8' left of centerline, up to 125' AGL/331' MSL. **Rwy 20**, terrain left and right of centerline beginning at DER up to 306' MSL. Trees and hangers beginning 60' from DER, 32' left of centerline, up to 93' AGL/311' MSL. Trees, antennas and buildings beginning 564' from DER, 411' right of centerline, up to 74' AGL/280' MSL. **Rwy 30**, terrain left and right of centerline beginning at DER up to 292' MSL. Trees beginning 1664' from DER, 626' right of centerline, up to 194' AGL/363' MSL.

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7**, 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left.

Rwy 25, turn right. **All aircraft** climb via BTG R-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

POWELL, WY**POWELL MUNI**

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

Rwy 31, turn left. **All aircraft** climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)
AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/ min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15**, std. w/ min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28**, std. w/ min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15**, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 28**, climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

Rwy 33, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10**, trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15**, trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28**, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33**, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319' MSL.

PULLMAN-MOSCOW, WA**PULLMAN-MOSCOW RGNL**

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1¼ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)

AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.DEPARTURE PROCEDURE: **Rwy 16**, climbing rightturn. **Rwy 34**, climb runway heading. **All aircraft** climb via SEA R-158 to COTNY INT/SEA 18.1 DME.

Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16**, light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34**, multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

RAWLINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min.climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std.with a min climb of 365' per NM to 8700. **Rwys 10, 28**, NA.DEPARTURE PROCEDURE: **Rwy 4**, turn right.

Rwy 22, turn left. Climb to 10000 via RWL R-200 and CKW R-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)

AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std. w/ min. climb of 269' per NM to 4700. **Rwy 28**, std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10**, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22**, climb heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28**, climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28**, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)

AMDT 7 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 405' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2½ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16**, climb heading

157° to 700, then climbing right turn direct SEA VORTAC, thence..., or for climb in visual conditions: cross Renton Muni Airport westbound at or above 1000 MSL, then proceed on SEA R-029 to SEA VORTAC, thence... **Rwy 34**, Climb heading 337° to 700, then climbing left turn direct SEA VORTAC thence ...

...Climb in SEA VORTAC holding pattern (East, left turns, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16**, trees, towers, lights and blast shield beginning 185' from DER, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from DER, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34**, Trees and terrain beginning 1.6 NM from DER, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from DER, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right

turn. **Rwy 35**, climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17**, 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND (RLD)

AMDT 8 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwys 1, 8**, std. w/ min. climb of 310' per NM to 5000. **Rwy 19**, std. w/ min. climb of 480' per NM to 5000. **Rwy 26**, std. w/ min. climb of 350' per NM to 5000.

DEPARTURE PROCEDURE: **Rwys 1, 8**, climbing left turn heading 220° and PSC R-269 to 6000 to PAPPS INT/PSC 32.72 DME before proceeding on course. **Rwy 19**, climbing right turn heading 310° and PSC R-269 to 6000 to PAPPS INT/PSC 32.72 DME before proceeding on course. **Rwy 26**, climb heading 310° and PSC R-269 to 6000 to PAPPS INT/PSC 32.72 DME before proceeding on course.

NOTE: **Rwy 1**, crane 4957' from DER, 1271' right of centerline, up to 120' AGL/520' MSL. Poles beginning 752' from DER, 446' right of centerline, up to 20' AGL/416' MSL. Trees beginning 43' from DER, 102' left of centerline, up to 25' AGL/424' MSL. Multiple trees 184' from DER, 162' right of centerline, up to 25' AGL/424' MSL. **Rwy 8**, railroad beginning 181' from DER, left to right of centerline, up to 23' AGL/412' MSL. Sign 23' from DER, 122' right of centerline, up to 4' AGL/391' MSL. Trees beginning 1142' from DER, 12' right of centerline, up to 25' AGL/454' MSL. Trees beginning 2240' from DER, 94' left of centerline, up to 25' AGL/456' MSL. **Rwy 19**, bushes beginning 22' from DER, 297' left of centerline, up to 7' AGL/401' MSL. Trees beginning 323' from DER, 478' right of centerline, up to 25' AGL/424' MSL. Trees beginning 665' from DER, 399' left of centerline, up to 25' AGL/472' MSL. **Rwy 26**, antenna 310' from DER, 444' right of centerline, up to 7' AGL/408' MSL. Fence 458' from DER, 360' left of centerline, up to 25' AGL/425' MSL. Fence 456' from DER, 408' right of centerline, up to 25' AGL/410' MSL. Post 398' from DER, 255' right of centerline, up to 9' AGL/409' MSL. Bush 755' from DER, 257' right of centerline, up to 17' AGL/417' MSL. Ground 480' from DER, 488' right of centerline, up to 421' MSL. Trees beginning 174' from DER, 231' right of centerline, up to 25' AGL/425' MSL. Trees beginning 184' from DER, 210' left of centerline, up to 25' AGL/457' MSL.

RIVERTON, WY

RIVERTON RGNL (RIW)

AMDT 1 10042 (FAA)

DEPARTURE PROCEDURE: **Rwys 1, 10, 19, 28**, climbing right turn direct RIW VOR/DME. **All Aircraft** climb in RIW holding pattern (hold East, right turns, 287° inbound) to MEA for direction of flight.

NOTES: **Rwy 1**, sage brush beginning 35' from DER, left and right of centerline, up to 3' AGL/5499' MSL. **Rwy 10**, sage brush beginning 20' from DER, left and right of centerline, up to 3' AGL/5466' MSL. **Rwy 19**, sage brush beginning 49' from DER, 171' right of centerline, up to 3' AGL/5479' MSL. Windstocks beginning 154' from DER, 268' right of centerline, up to 28' AGL/5468' MSL. **Rwy 28**, sage brush, tower, and pole beginning 54' from DER, 154' right of centerline, up to 59' AGL/5679' MSL. Sage brush, fence, and poles beginning 132' from DER, 27' left of centerline, up to 67' AGL/5647' MSL.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY (RKS)

AMDT 6 10098 (FAA)

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 8000 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 9**, climb heading 090° to 8200 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 21**, climb heading 212° to 8400, then climbing right turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 27**, climb heading 270° to 7900, then climbing right turn via OCS R-291 to OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 3**, vehicle on road beginning 22' from DER, 120' left of centerline, up to 20' AGL/6760' MSL, bushes beginning 178' from DER, 517' right of centerline, up to 15' AGL/6755' MSL. **Rwy 21**, bush 53' from DER, 221' left of centerline, 15' AGL/6737' MSL.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34**, std. w/ min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34**, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16**, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34**, building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

AMDT 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from departure end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURNLOM/Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURNLOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwy 35**, 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17**, NA. **Rwy 35**, climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1**, 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19**, 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn to COE VOR/DME via heading 200° and COE R-002.

Rwy 19, climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5**, turn left heading 280°. **Rwy 23**, turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPORT

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33**, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15**, 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEY, MT

SCOBEY

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.



SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L**, 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R**, std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L**, std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 31R**, std. w/ a min. climb of 334' per NM to 900, or 400-1½ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEAR-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L**, multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL.

Rwy 13R, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L**, multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy 31R**, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R**, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence... climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L**, trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C**, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R**, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L**, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5**, 200-1¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5**, fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL. **Rwy 11**, truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions. **Rwy 23**, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000. **Rwy 23**, climbing left turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5**, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23**, multiple trees beginning 52' from departure end of runway, 149' left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.

SHERIDAN, WY**SHERIDAN COUNTY**

TAKE-OFF MINIMUMS: **Rwy 5**, 700-3 or std. w/ min. climb of 318' per NM to 5100, or... **Rwy 14**, 800-3 or std. w/ min. climb of 263' per NM to 5100, or... **Rwy 23**, 900-3 or std. w/ min. climb of 348' per NM to 5100, or...
 ... 1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 14**, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 23**, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 32**, climb via heading 320° and SHR R-106 to SHR VORTAC, thence...
 ... climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5**, multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23**, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32**, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT**SIDNEY-RICHLAND MUNI**

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA**HARVEY FIELD (S43)****ORIG 09127 (FAA)**

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L**, std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R**, std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L**, climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence... **Rwy 33R**, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 15L**, tree 81' from DER, 177' right of centerline, 40' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R**, powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA

FELTS FIELD (SFF)

AMDT 5 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3L**, std. w/ min. climb of 450' per NM to 3600, or 2300-3 for climb in visual conditions. **Rwy 3R**, std. w/ min. climb of 410' per NM to 3700, or 2300-3 for climb in visual conditions. **Rwy 21L**, std. w/ min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions. **Rwy 21R**, std. w/ min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R**, climb heading 035° to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above MCA/MEA for route of flight. **Rwys 21L, 21R**, climb heading 215° to 3200, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA/MEA for route of flight.

NOTE: **Rwy 3L**, trees beginning 1853' from DER, 772' right of centerline, up to 100' AGL/2037' MSL. Trees beginning 3538' from DER, 529' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.5 NM from DER, 16' left of centerline, up to 100' AGL/2579' MSL. Trees beginning 2.3 NM from DER, 723' right of centerline, up to 100' AGL/2499' MSL. **Rwy 3R**, hangar, NDB, and trees beginning 92' from DER, 269' right of centerline, up to 100' AGL/2040' MSL. Trees beginning 4685' from DER, 1033' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.6 NM from DER, 525' left of centerline, up to 100' AGL/2559' MSL. Trees and transmission poles beginning 2.6 NM from DER, 214' right of centerline, up to 150' AGL/2570' MSL. **Rwy 21L**, elevator, pole on building and trees beginning 315' from DER, 302' left of centerline, up to 140' AGL/2080' MSL. **Rwy 21R**, poles and trees beginning 188' from DER, 13' right of centerline, up to 100' AGL/1982' MSL. Elevator, pole, hangar, and building beginning 203' from DER, 1' left of centerline, up to 140' AGL/2080' MSL. Terrain and trees beginning 3.1 NM from DER, 4904' left of centerline, up to 100' AGL/2559' MSL.

SPOKANE INTL (GEG)

AMDT 5 10154 (FAA)

DEPARTURE PROCEDURE: **Rwys 3, 25**, climbing left turn direct GEG VORTAC, thence... **Rwys 7, 21**, climbing right turn direct GEG VORTAC, thence... continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeast bound V120-448, 5200; eastbound V2, 5200; southeast through westbound climb on course.

NOTE: **Rwy 3**, multiple trees beginning 1089' from DER, 666' left of centerline, up to 100' AGL/2370' MSL. Tree 1524' from DER, 851' right of centerline, 100' AGL/2374' MSL. **Rwy 21**, pole 2655' from DER, 1122' left of centerline, 42' AGL/2446' MSL. Tree 3391' from DER, 1315' right of centerline, 100' AGL/2466' MSL.

STEVENSVILLE, MT

STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSOR-163. **Rwy 30**, do not exceed 210 knots until established on MSOR-160.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 335 and MSOR-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30**, climbing right turn via heading 025° and MSO R-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR

SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36**, 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36**, climb direct to DSD VORTAC. Then all aircraft climb on course.

TACOMA, WA

TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17**, turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35**, turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A, B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C, D 2600-3 or std. with a min. climb of 475' per NM to 3100. **Rwy 7**, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2, 7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. All aircraft intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR

TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500.

DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

TORRINGTON, WY

TORRINGTON MUNI (TOR)
ORIG 10042 (FAA)

NOTE: **Rwy 2**, terrain 30' from DER, 277' left of centerline, 4197' MSL. **Rwy 10**, multiple trees and fence beginning 71' from DER, 143' right of centerline, up to 14' AGL/4214' MSL. Terrain 14' from DER, 502' left of centerline, 4199' MSL. **Rwy 28**, terrain 133' from DER, 386' right of centerline, 4213' MSL.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL
TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWF R-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWF VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)
AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions. **Rwy 26**, 600-3 or 900-2½ for climb in visual conditions. DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence. . . or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence. . . **Rwy 26**, climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence. . . or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence. . .

...continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL. Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL. **Rwy 26**, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2, 7, 20, 25, 34**, turn left. **Rwy 16**, turn right. **All aircraft** climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)
ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 3900 before proceeding on course. **Rwy 30**, climb heading 301° to 4000 before proceeding on course

...for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12**, tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30**, tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900.

Rwys 25, 30, CAT A,B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C,D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25, 30**, climbing left turn. **All aircraft** climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CWR-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CWR-2007400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH: **Rwy 1**, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right. **All aircraft** climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8**, climbing left turn to 9000 via heading 030° to intercept IIP VOR/ DME R-140 to JEZZY Int, thence... **Rwy 26**, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to JEZZY INT, thence...

...continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8**, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL.

Rwy 26, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/ lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD)

(NUW)

OKA HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7**:

Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25**: Climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS**: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE:

Rwy 7: Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25**: Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS**: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy 7**: Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA.

Rwy 16, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to 5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CW R-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

YAKIMA AIR TERMINAL/MCALLISTER FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, NA. **Rwy 9**, 800-4 or std. with a min. climb of 300' per NM to 5000. **Rwys 22, 27**, 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4**, NA. **Rwys 9, 22, 27**, Use ZILLA DEPARTURE PROCEDURE.

LOC I-AWO	APP CRS	Rwy Idg	5332
111.5	339°	TDZE	131
		Apt Elev	137

LOC RWY 34

ARLINGTON MUNI (AWO)

▼ Inoperative table does not apply to Cat C.
▲NA Use Arlington altimeter setting, if not received use Whidbey Island NAS altimeter setting and increase all MDAs 100 feet.

MAIS

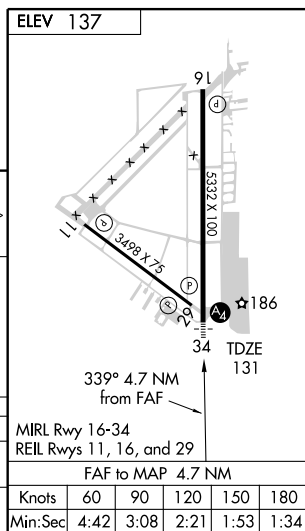
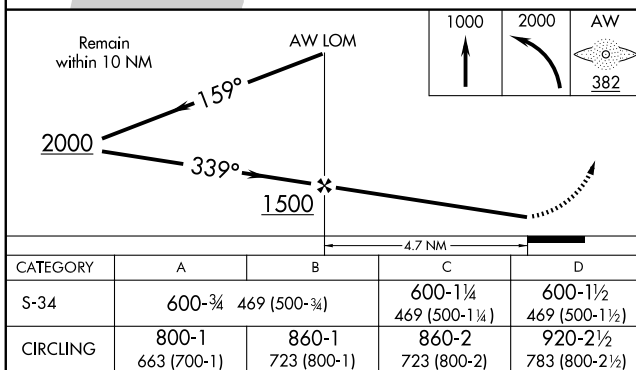
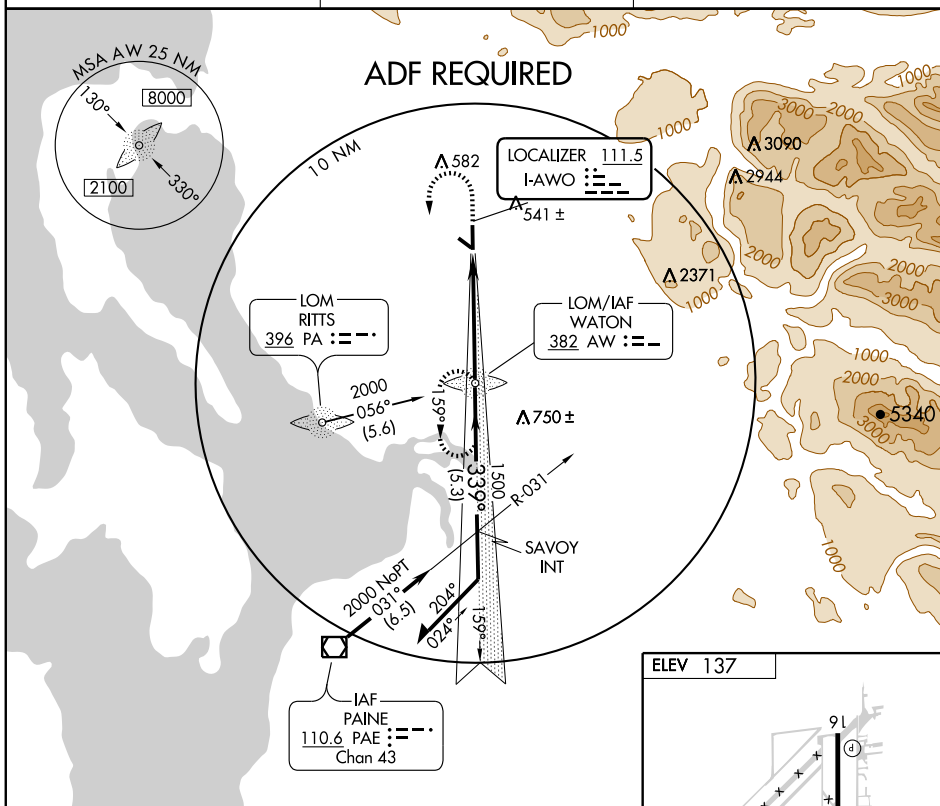


MISSED APPROACH: Climb to 1000 then climbing left turn to 2000 direct AW LOM and hold.

AWOS-3
135.625

SEATTLE CENTER
128.5 306.9

UNICOM
122.7 (CTAF) 0



NDB or GPS RWY 34

ARLINGTON MUNI (AWO)

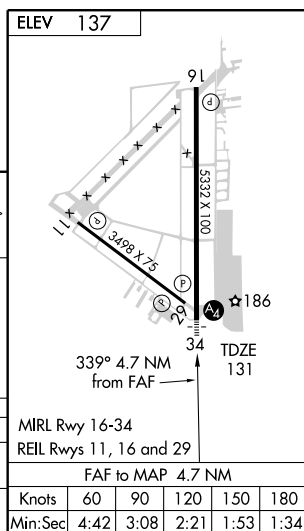
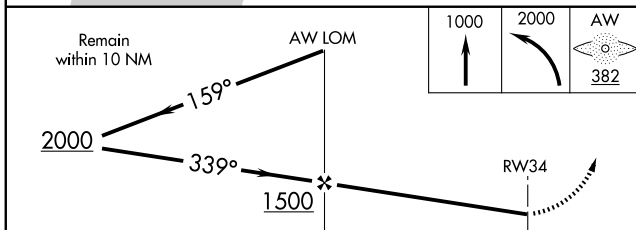
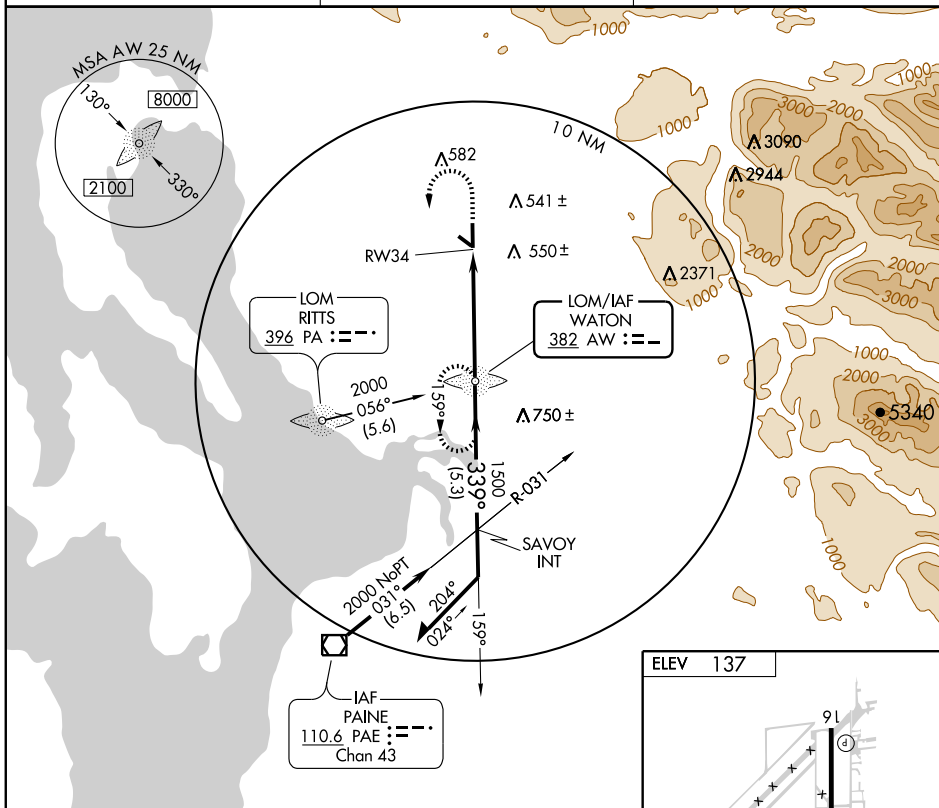
LOM AW	APP CRS	Rwy Idg	5332
382	339°	TDZE	131
		Apt Elev	137

T Inoperative table does not apply to Cat C.
A Use Arlington altimeter setting, if not received use Whidbey Island NAS altimeter setting and increase all MDAs 100 feet.

MALS


MISSED APPROACH: Climb to 1000 then climbing left turn to 2000 direct AW LOM and hold.

AWOS-3 135.625	SEATTLE CENTER 128.5 306.9	UNICOM 122.7 (CTAF) 0
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<div><div></div><div>4.7 NM</div><div></div></div>					MIRL Rwy 16-34 REIL Rwys 11, 16 and 29	
CATEGORY	A	B	C	D		
S-34	860-¾	729 (800-¾)	860-2 729 (800-2)	860-2¼ 729 (800-2¼)	FAF to MAP 4.7 NM	
CIRCLING	860-1	723 (800-1)	860-2 723 (800-2)	920-2½ 783 (800-2½)	Knots	60 90 120 150 180
					Min:Sec	4:42 3:08 2:21 1:53 1:34

SEATTLE CLNC DEL
128.0
SEATTLE DEP CON
123.85

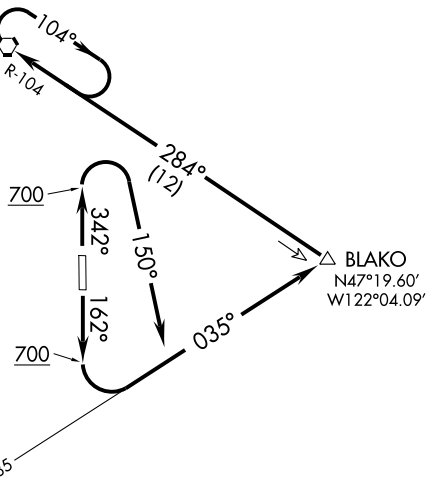
TAKE-OFF MINIMUMS

RWY 16: Standard with minimum climb of 266' per NM to 1200 or 1200-2½ for climb in visual conditions, do not exceed 180 KIAS until passing BLAKO.

RWY 34: Standard with minimum climb of 300' per NM to 900 or 1200-2½ for climb in visual conditions, do not exceed 180 KIAS until passing BLAKO.

SEATTLE
116.8 SEA
Chan 115
N47°26.12' W122°18.58'
L-1, H-1

McCHORD
109.6 TCM
Chan 33

TAKE-OFF OBSTACLE NOTES:

RWY 16: AAO 3.2 NM from DER, 3643' left of centerline 200' AGL/724' MSL.

RWY 34: AAO 3.2 NM from DER, 5520' right of centerline 200' AGL/639' MSL. Powerline 1804' from DER, on centerline, 80' AGL/122' MSL.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb heading 162° to 700, then climbing left turn to 3000 via the TCM R-035 to BLAKO INT then left turn via the SEA R-104 to SEA VORTAC; or climb in visual conditions east of RWY 16/34 to cross Auburn Muni southbound at or above 1200', then climb to 3000 via heading 150° and TCM R-035 to BLAKO INT then left turn via the SEA R-104 to SEA VORTAC. Do not exceed 180 KIAS until passing BLAKO. Thence....

TAKE-OFF RUNWAY 34: Climb heading 342° to 700, then climbing right turn to 3000 via heading 150° to TCM R-035 to BLAKO INT then left turn via the SEA R-104 to SEA VORTAC; or climb in visual conditions east of RWY 16/34 to cross Auburn Muni southbound at or above 1200', then climb to 3000 via heading 150° and TCM R-035 to BLAKO INT then left turn via the SEA R-104 to SEA VORTAC. Do not exceed 180 KIAS until passing BLAKO. Thence....

....hold E SEA VORTAC, RT, 284° inbound; when authorized by ATC, climb-in-hold to 5000, or as assigned before proceeding on course.

APP CRS 331°	Rwy Idg TDZE Apt Elev	N/A N/A 63
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RNAV (GPS)-A
AUBURN MUNI (S50)

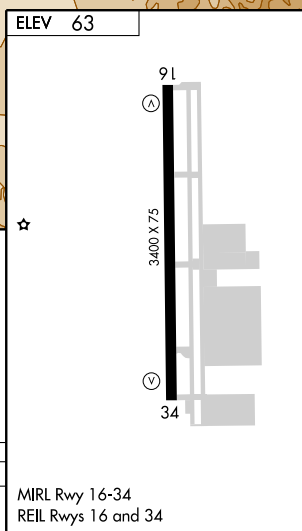
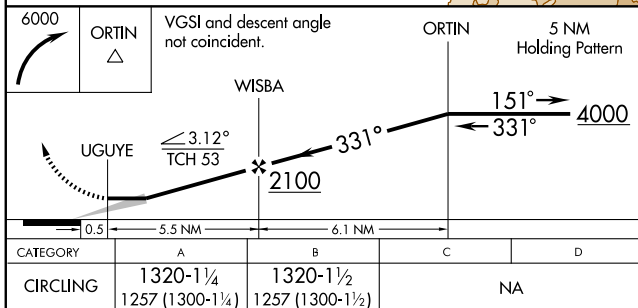
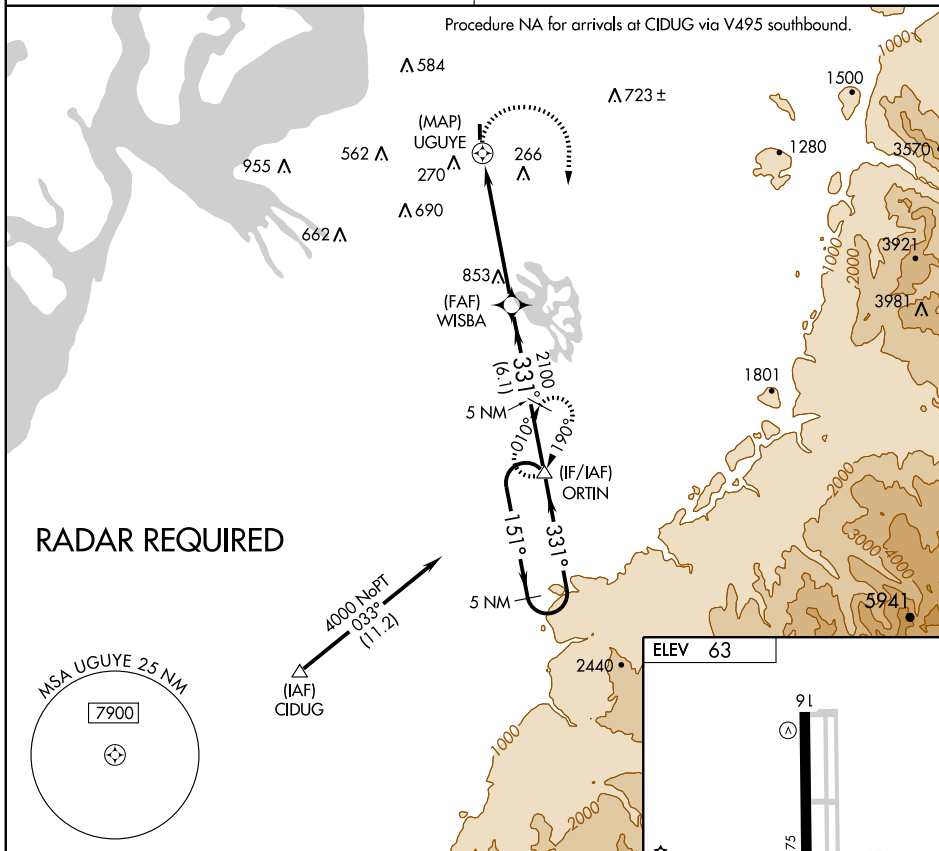
T	Circling NA west of Rwy 16-34.
A NA	Procedure NA at night. DME/DME RNP-0.3 NA. Use Seattle-Tacoma Intl altimeter setting.

MISSED APPROACH: Climbing right turn to 6000 direct
ORTIN and hold, continue climb-in-hold to 6000.

SEATTLE APP CON
123.85

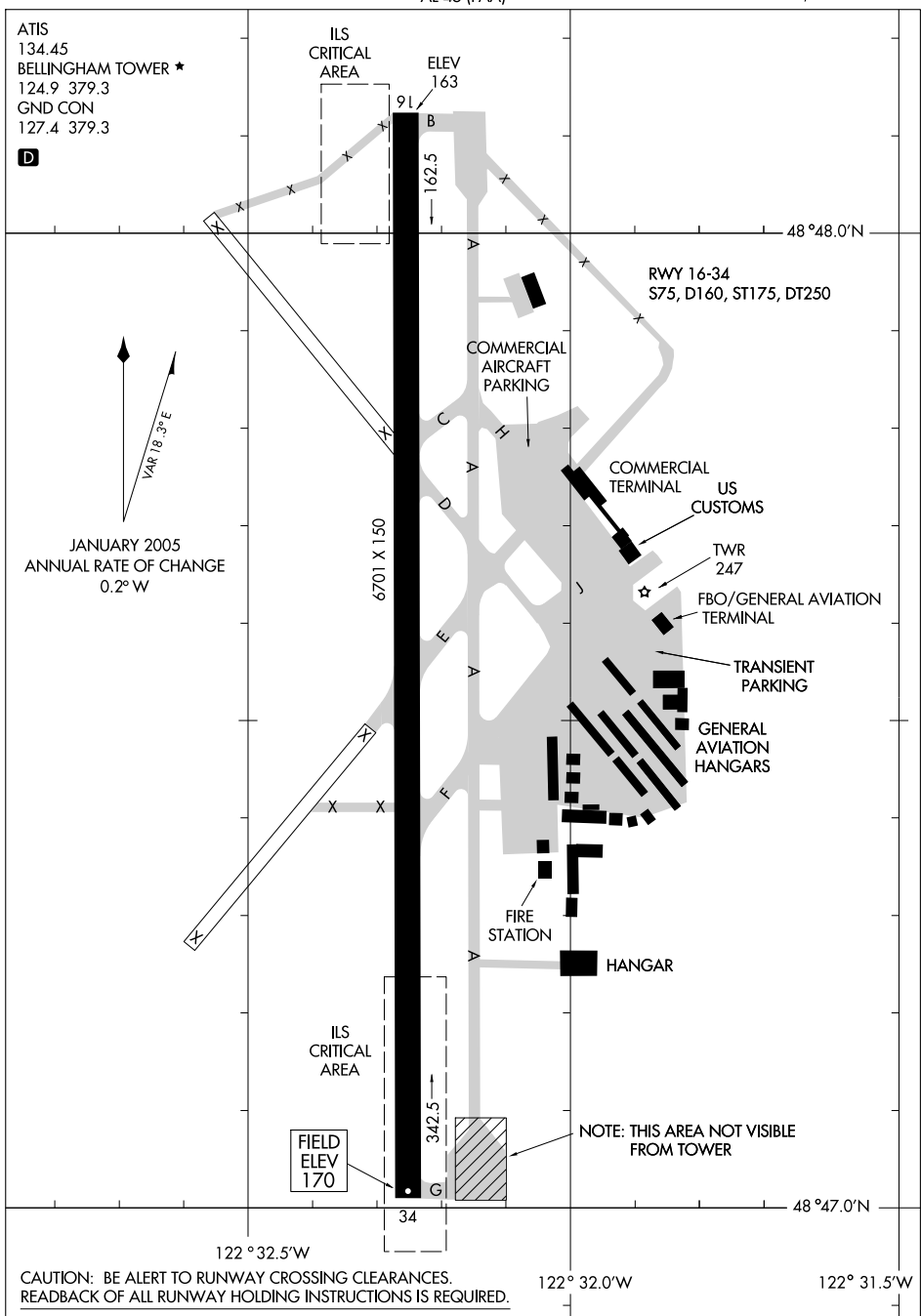
UNICOM
122.8 (CTAF)

Procedure NA for arrivals at CIDUG via V495 southbound.



AIRPORT DIAGRAM

AL-45 (FAA)

 BELLINGHAM INTL (BLI)
 BELLINGHAM, WASHINGTON


LOC/DME I-BLI	APP CRS	Rwy Idg	6701
108.5	160°	TDZE	163
Chan 22		Apt Elev	170

For inoperative MALS, increase S-LOC 16 Cat D visibility to RVR 5000.
If local altimeter not received, use Friday Harbor altimeter setting and increase DA to 430 and increase all MDAs 80 feet.
VDP NA when using Friday Harbor altimeter setting.
* RVR 1800 authorized with the use of FD or AP or HUD to DA.

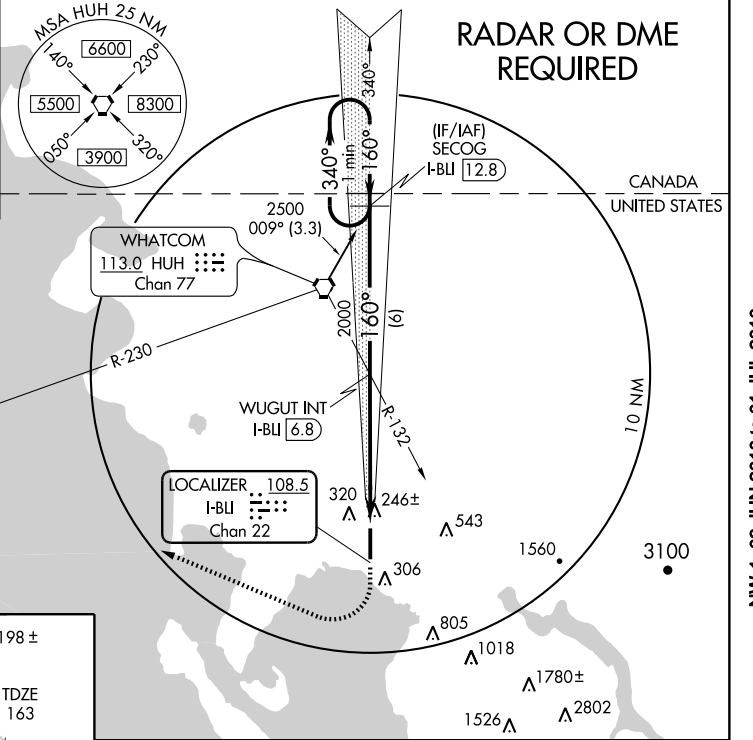
MALS

MISSED APPROACH: Climb to 700 then climbing right turn to 2000 via heading 271° and YVR VORTAC R-131 to TECUV INT/YVR 15.3 DME and hold.

ATIS	VICTORIA TERMINAL APP CON	BELLINGHAM TOWER ★	GND CON	UNICOM
134.45	132.7 290.8	124.9 (CTAF) 379.3	127.4 379.3	122.95

ALTERNATE MISSED APCH FIX

WHATCOM HUH 113.0 Chan 77



ELEV 170

160° 5.5 NM from FAF

91°

TDZE 163

TWR 247

REIL Rwy 34

HIRL Rwy 16-34

FAF to MAP 5.5 NM

Knots	60	90	120	150	180
Min:Sec	5:30	3:40	2:45	2:12	1:50

One Minute Holding Pattern

SECOG I-BLI 12.8

WUGUT INT I-BLI 6.8

YVR R-131 115.9

TECUV

GS 3.00° TCH 50

2000

340°

160°

2000

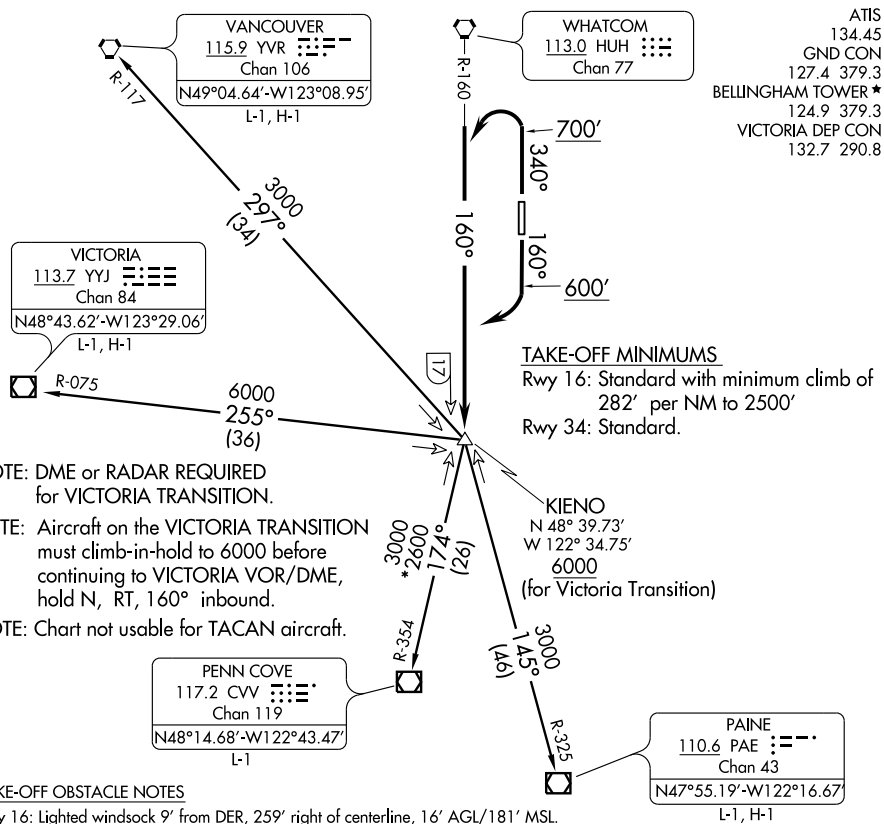
6 NM

4.6 NM

0.9

CATEGORY	A	B	C	D
S-ILS 16	*363/24 200 (200-½)			
S-LOC 16	500/24 337 (400-½)			500/40 337 (400-¾)
CIRCLING	620-1 450 (500-1)		620-1½ 450 (500-1½)	720-2 550 (600-2)

NW-1, 03 JUN 2010 to 01 JUL 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb heading 160° to 600', then climbing right turn to intercept HUH R-160 to KIENO INT, Thence....

TAKE-OFF RUNWAY 34: Climb heading 340° to 700', then climbing left turn to intercept HUH R-160 to KIENO INT. Thence....

....Maintain assigned transition altitude, expect requested altitude within 10 minutes.

PAINE TRANSITION (KIENO3.PAE): From over KIENO INT via PAE R-325 to PAE VOR/DME.

PENN COVE TRANSITION (KIENO3.CVV): From over KIENO INT via CVV R-354 to CVV VOR/DME.

VANCOUVER TRANSITION (KIENO3.YVR): From over KIENO INT via YVR R-117 to YVR VORTAC.

VICTORIA TRANSITION (KIENO3.YYJ): From over KIENO INT via YYJ R-075 to YYJ VOR/DME.

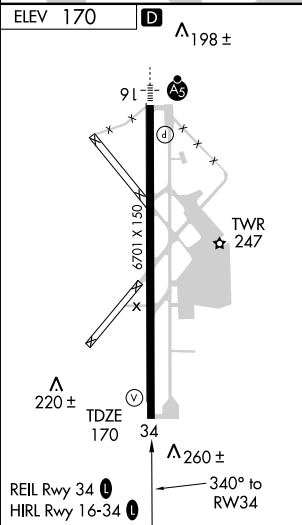
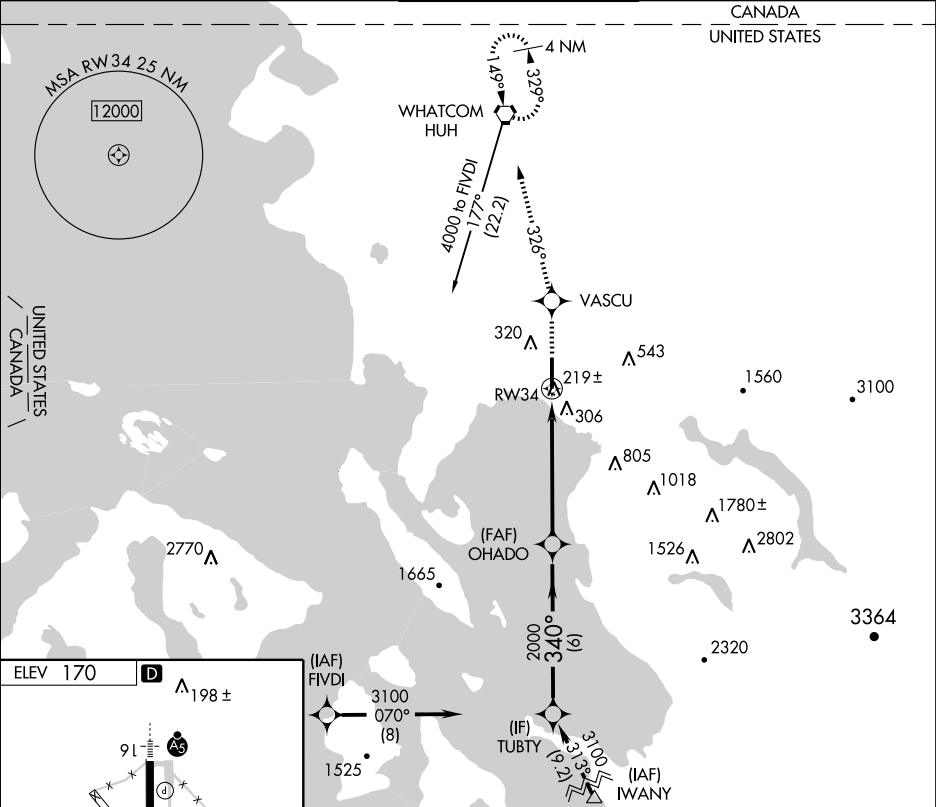
WAAS CH 86223 W34A	APP CRS 340°	Rwy Idg TDZE Apt Elev	6701 170 170
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RNAV (GPS) RWY 34

BELLINGHAM INTL (BLI)

▼ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).	MISSED APPROACH: Climb to 3000 direct VASCU and via 326° track to HUH VORTAC and hold, continue climb-in-hold to 3000.
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ATIS 134.45	VICTORIA TERMINAL APP CON 132.7 290.8	BELLINGHAM TOWER ★ 124.9 (CTAF) 0 379.3	GND CON 127.4 379.3	UNICOM 122.95
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TUBTY	Procedure Turn NA	OHADO	3000	VASCU	trk 326°	HUH
3100	340°	2000	RW34			
GS 3.00° TCH 50	6 NM	5.5 NM				
CATEGORY	A	B	C	D		
LPV DA		439-1	269 (300-1)			
LNAV/ VNAV DA		592-1½	422 (500-1½)			
LNAV MDA	560-1	390 (400-1)		560-1¼ 390 (400-1¼)		
CIRCLING	620-1	450 (500-1)	620-1½ 450 (500-1½)	720-2 550 (600-2)		

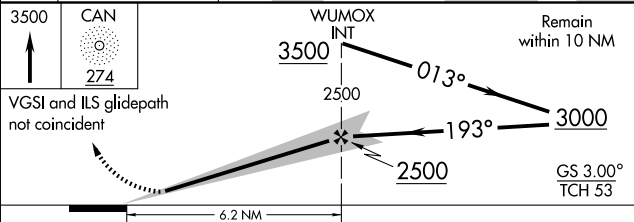
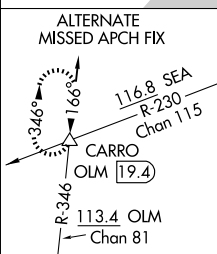
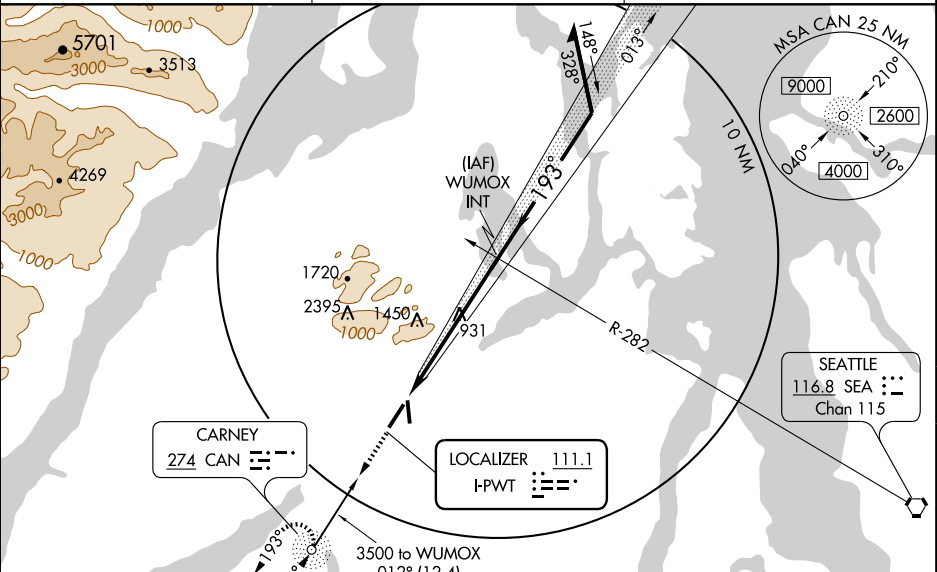
LOC I-PWT	APP CRS	Rwy Idg	6000
111.1	193°	TDZE	441
		Apt Elev	444

ILS or LOC RWY 19
BREMERTON NATIONAL (PWT)

⚠ Circling NA for Cat. D west of Rwy 1-19. When local altimeter setting not received, use Seattle-Tacoma Intl altimeter setting and increase all DA/MDAs 60 feet and all visibilities 3/4 mile, inoperative table does not apply.

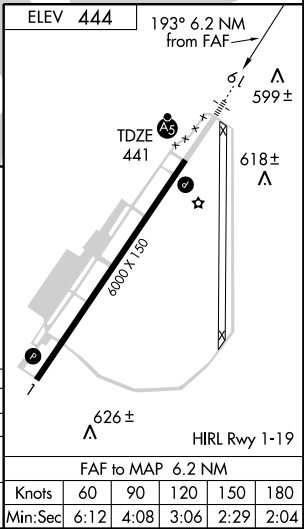
MALSR
A5 MISSED APPROACH: Climb to 3500 direct CAN NDB and hold, continue climb-in-hold to 3500.

AWOS-3	SEATTLE APP CON	UNICOM
121.2	127.1 254.4	123.05 (CTAF) 0



CATEGORY	A	B	C	D
S-ILS 19	645-1/2 204 (300-1/2)			
S-LOC 19	1200-1/2 759 (800-1/2)	1200-3/4 759 (800-3/4)	1200-13/4 759 (800-13/4)	1200-2 759 (800-2)
CIRCLING	1200-1 756 (800-1)	1200-11/4 756 (800-11/4)	1200-21/4 756 (800-21/4)	1200-21/2 756 (800-21/2)

ADF REQUIRED

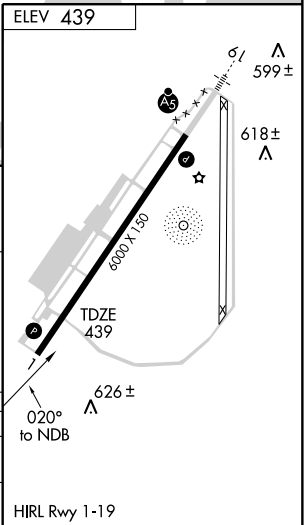
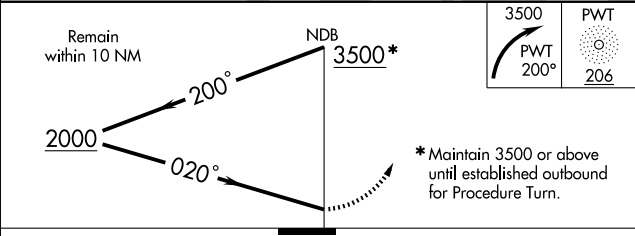
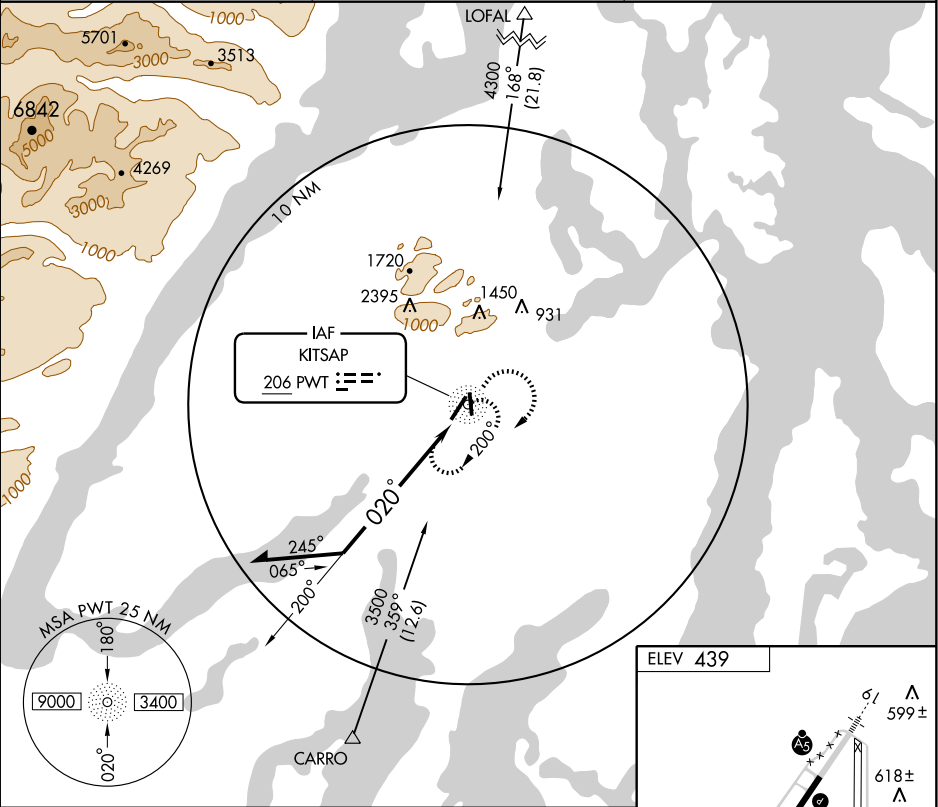


NDB PWT	APP CRS	Rwy Idg	6000
<u>206</u>	<u>020°</u>	TDZE	439
		Apt Elev	439

NDB RWY 1
BREMERTON NATIONAL (PWT)

NA	Circling NA west of Rwy 1-19 for Cat.D.	MISSED APPROACH: Climbing right turn to 3500 via 200° bearing from PWT NDB, then direct PWT NDB and hold.
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AWOS-3 121.2	SEATTLE APP CON 127.1 254.4	UNICOM 123.05 (CTAF)
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CATEGORY	A	B	C	D
S-1	980-1	541 (600-1)	980-1½ 541 (600-1½)	980-1¾ 541 (600-1¾)
CIRCLING	980-1	541 (600-1)	980-1½ 541 (600-1½)	1000-2 561 (600-2)

HIRL Rwy 1-19

APP CRS	Rwy Idg	6000
013°	TDZE	444
	Apt Elev	444

RNAV (GPS) RWY 1
BREMERTON NATIONAL (PWT)

⚠

Circling NA for Cat. D west of Rwy 1-19.

⚠

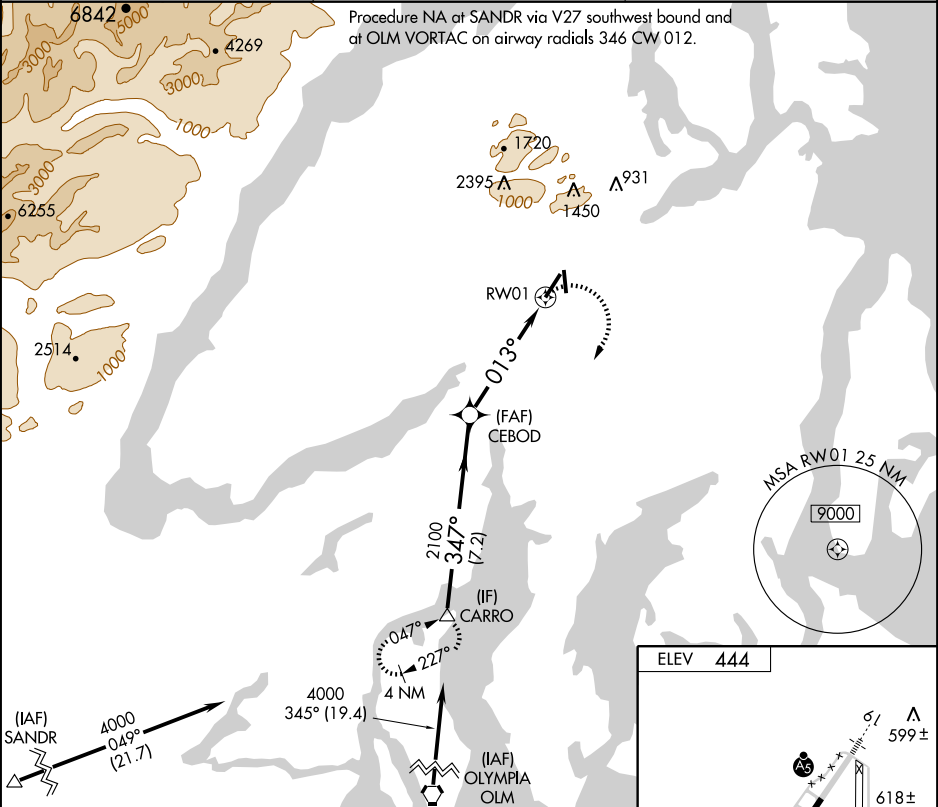
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

⚠

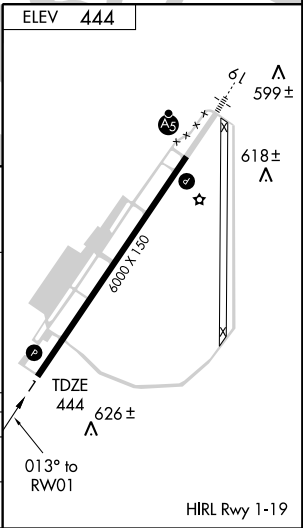
When local altimeter setting not received, use Seattle-Tacoma Intl altimeter setting and increase all MDAs 60 feet.

MISSED APPROACH: Climbing right turn to 4000 direct CARRO and hold, continue climb-in-hold to 4000.

AWOS-3 121.2	SEATTLE APP CON 127.1 254.4	UNICOM 123.05 (CTAF) 0
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Procedure Turn NA	CARRO		CEBOD		RW01	
	4000		2100		3.04 NM	
	347°		013°		TCH 45	
	7.2 NM		5 NM			
CATEGORY	A		B		C	
LNAV MDA	880-1		436 (500-1)		880-1½	
					436 (500-1½)	
					940-1½	
					496 (500-1½)	
CIRCLING	940-1		496 (500-1)		1000-2	
					556 (600-2)	



WAAS CH 61106 W19A	APP CRS 193°	Rwy Idg TDZE Apt Elev	6000 441 444
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RNAV (GPS) RWY 19

BREMERTON NATIONAL (PWT)

⚠ Circling NA for Cat. D west of Rwy 1-19. DME/DME RNP-0.3 NA.
⚠ When local altimeter setting not received, use Seattle-Tacoma Intl altimeter setting and increase DA to 808 feet and all MDAs 60 feet, increase LPV visibility all Cats. 1/2 mile. Inoperative table does not apply to LNAV Cat. A and B. VDP NA when using Seattle-Tacoma Intl altimeter setting. For inoperative MALSR increase LPV visibility all Cats. 1/2 mile. Inoperative table does not apply to LNAV Cat. A and B.



MISSED APPROACH: Climb to 4000 direct CEBOD and via 167° track to CARRO and hold, continue climb-in-hold to 4000.

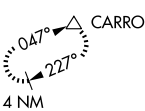
AWOS-3
121.2

SEATTLE APP CON
127.1 254.4

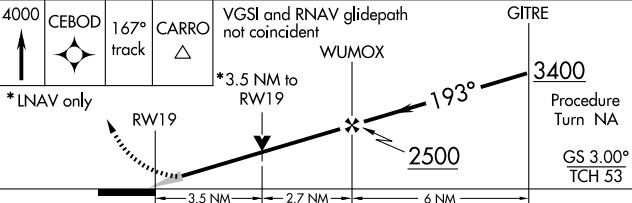
UNICOM
123.05 (CTAF) 0



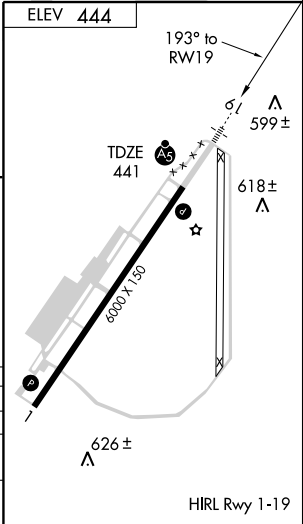
MISSED APCH FIX



* LNAV only



CATEGORY	A	B	C	D
LPV DA	763-1/2	322 (400-1/2)		
LNAV MDA	1600-1/4 1159 (1200-1/4)	1600-1/2 1159 (1200-1/2)	1600-2 1/2 1159 (1200-2 1/2)	
CIRCLING	1600-1/4 1156 (1200-1/4)	1600-1/2 1156 (1200-1/2)	1600-3 1156 (1200-3)	



NDB BVS	APP CRS	Rwy Idg	5477
<u>240</u>	112°	TDZE	144
		Apt Elev	144

NDB RWY 10

BURLINGTON/MOUNT VERNON/ SKAGIT RGNL (BVS)

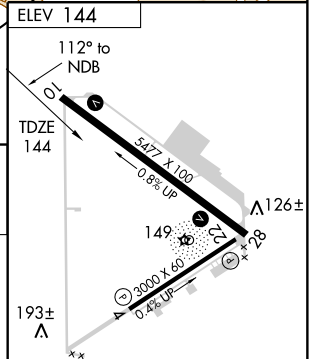
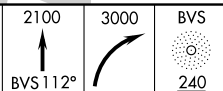
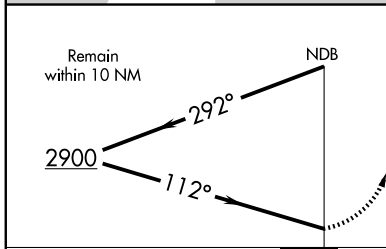
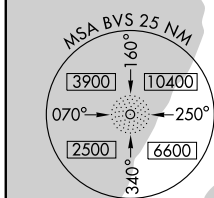
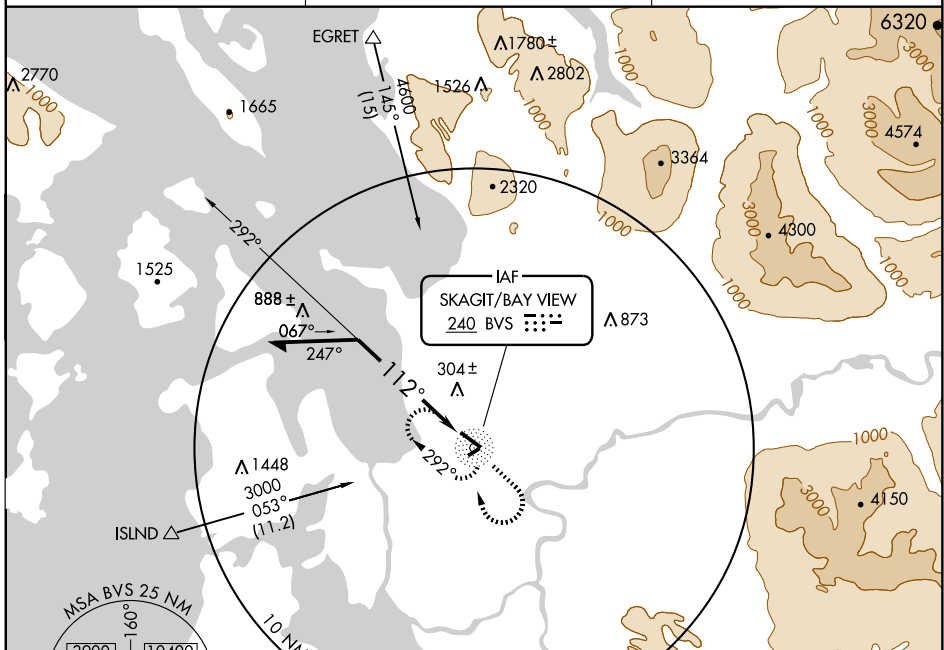
T	Visibility reduction by helicopters NA.
A	When local altimeter setting not received, use Friday Harbor altimeter setting and increase all MDA 80 feet.

MISSED APPROACH: Climb to 2100 via 112° bearing from BVS NDB then climbing right turn to 3000 direct BVS NDB and hold.

AWOS-3
121.125

WHIDBEY APP CON
120.7 270.8

UNICOM
123.075 (CTAF) **L**



CATEGORY	A	B	C	D
S-10	1400-1¼ 1256 (1300-1¼)	1400-1½ 1256 (1300-1½)	1400-3	1256 (1300-3)
CIRCLING	1400-1¼ 1256 (1300-1¼)	1400-1½ 1256 (1300-1½)	1400-3	1256 (1300-3)

LIRL Rwy 4-22 **L**
REIL Rwys 10 and 28 **L**
MIRL Rwy 10-28 **L**

WAAS CH 53500 W10A	APP CRS 105°	Rwy Idg TDZE Apt Elev	5477 144 144
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RNAV (GPS) RWY 10

BURLINGTON/MOUNT VERNON/SKAGIT RGNL (BVS)

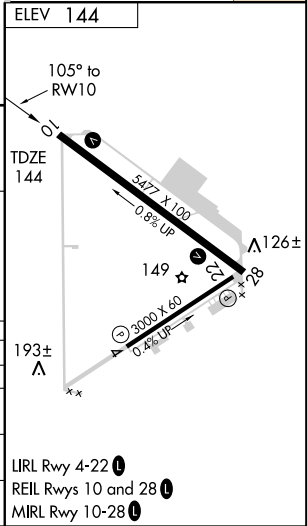
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA. Baro-VNAV NA when using Friday Harbor altimeter setting. When local altimeter setting not received, use Friday Harbor altimeter setting and increase all DA/MDA 80 feet, increase LPV and LNAV/VNAV all Cats, LNAV Cats C and D visibilities ¼ mile.

MISSED APPROACH: Climb to 5000 direct HOSVA and via 196° track to KIKYE and via 278° track to ISLND and hold, continue climb-in-hold to 5000.

AWOS-3 121.125	WHIDBEY APP CON 120.7 270.8	UNICOM 123.075 (CTAF) 0
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5 NM Holding Pattern		SOCLO	5000	HOSVA	196° track	KIKYE	278° track	ISLND
3900		285°	105°	3100	2200	105°	RWY 10	
GS 3.00°		TCH 40	2.8 NM	3.9 NM	6.2 NM			
CATEGORY	A	B	C	D				
LPV DA	497-1¼		353 (400-1¼)					
LNAV/VNAV DA	640-1¾		496 (500-1¾)					
LNAV MDA	620-1	476 (500-1)	620-1¼	476 (500-1¼)	620-1½	476 (500-1½)		
CIRCLING	660-1	516 (600-1)	660-1½	516 (600-1½)	700-2	556 (600-2)		



WAAS CH 70407 W28A	APP CRS 286°	Rwy Idg TDZE Apt Elev	5477 126 144
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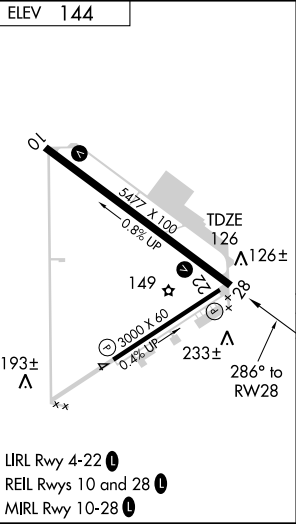
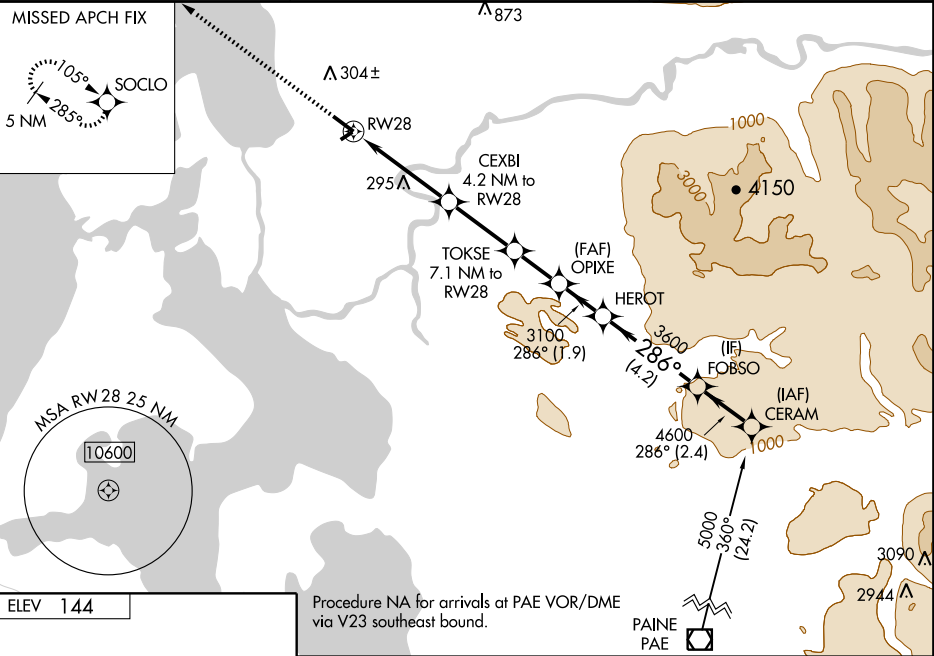
RNAV (GPS) RWY 28

BURLINGTON/MOUNT VERNON/SKAGIT RGNL (BVS)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. VDP and Baro-VNAV NA when using Friday Harbor altimeter setting. When local altimeter setting not received, use Friday Harbor altimeter setting and increase all DA/MDA 80 feet, increase LPV and LNAV/VNAV all Cnts, LNAV Cnts C and D visibilities ¼ mile.

MISSED APPROACH: Climb to 4000 direct SOCLO and hold, continue climb-in-hold to 4000.

AWOS-3 121.125	WHIDBEY APP CON 120.7 270.8	UNICOM 123.075 (CTAF)
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4000	SOCLO	VGSI and RNAV glidepath not coincident				FOBSO
*LNAV only	*1.2 NM to RW28	CEXBI 4.2 NM to RW28	TOKSE 7.1 NM to RW28	OPIXE	HEROT	FOBSO
	1480*	2440*	3100	3600	4600	Procedure Turn NA
	1.2	3 NM	2.9 NM	2 NM	1.9 NM	4.2 NM
CATEGORY	A	B	C	D		
LPV DA		421-1¼	295 (300-1¼)			
LNAV/VNAV DA		503-1½	377 (400-1½)			
LNAV MDA	600-1	474 (500-1)	600-1¼ 474 (500-1¼)	600-1½ 474 (500-1½)		
CIRCLING	660-1	516 (600-1)	660-1½ 516 (600-1½)	700-2 556 (600-2)		

APP CRS	Rwy Idg	5000
160°	TDZE	173
	Apt Elev	174

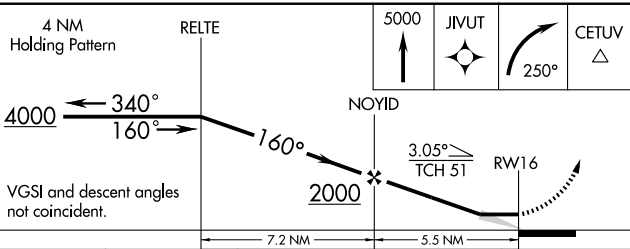
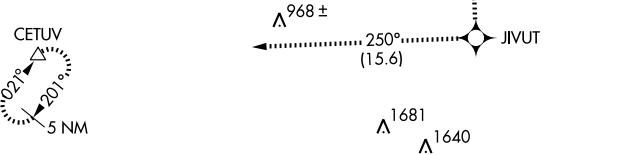
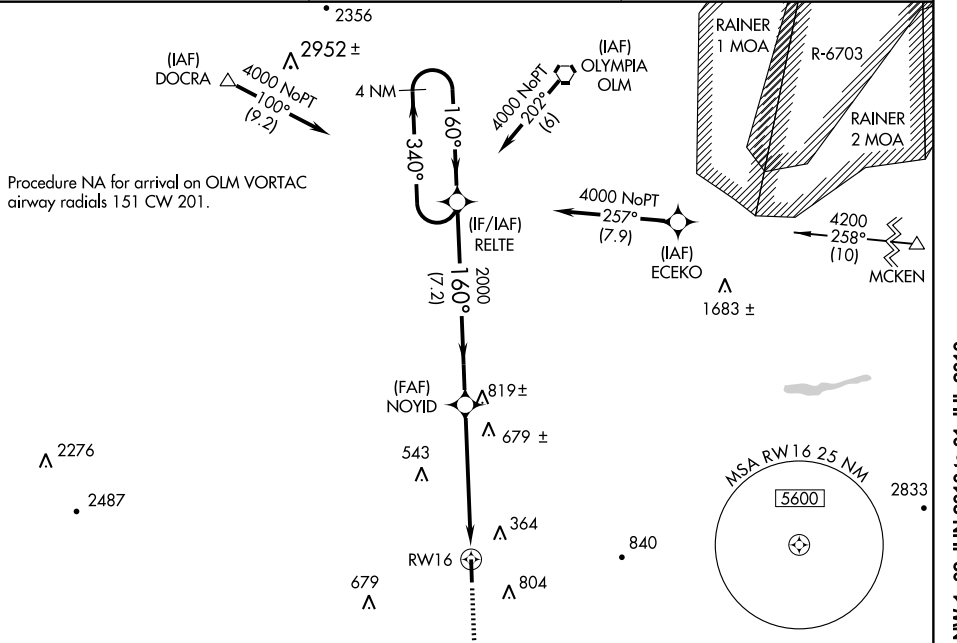
DME/DME RNP- 0.3 NA.

Circling NA northeast of Rwy 16-34.

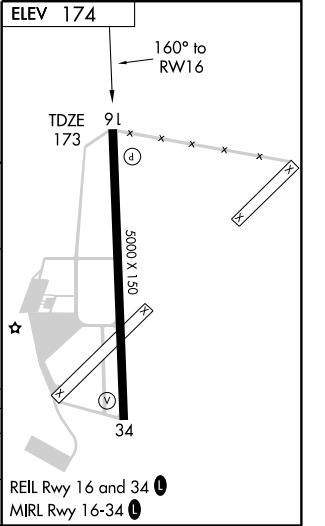
Circling NA at night.

MISSED APPROACH: Climb to 5000 direct JIVUT and right turn via 250° track to CETUV and hold, continue climb-in-hold to 5000.

AWOS-3 118.025	SEATTLE APP CON 121.1 377.15	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
LNAV MDA	980-1 807 (900-1)	980-1¼ 807 (900-1¼)	980-2¼ 807 (900-2¼)	980-2½ 807 (900-2½)
CIRCLING	980-1 806 (900-1)	980-1¼ 806 (900-1¼)	980-2¼ 906 (1000-2¼)	980-2½ 966 (1000-3)



NW-1, 03 JUN 2010 to 01 JUL 2010

NDB DPY
365

APP CR
323°

Rwy Idg	TDZE	Apt Elev
1	100	100
2	100	100
3	100	100
4	100	100
5	100	100
6	100	100
7	100	100
8	100	100
9	100	100
10	100	100
11	100	100
12	100	100
13	100	100
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N/A
N/A
2211

NDB-A
DEER PARK (DEW)

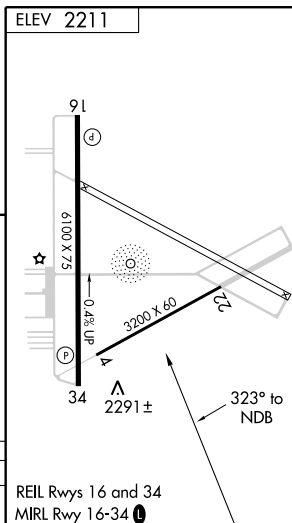
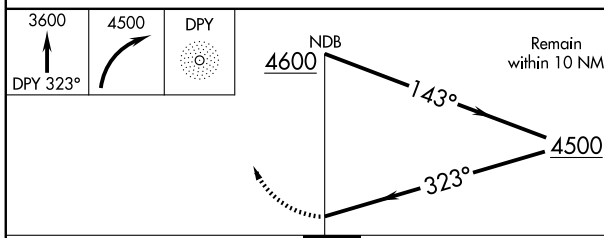
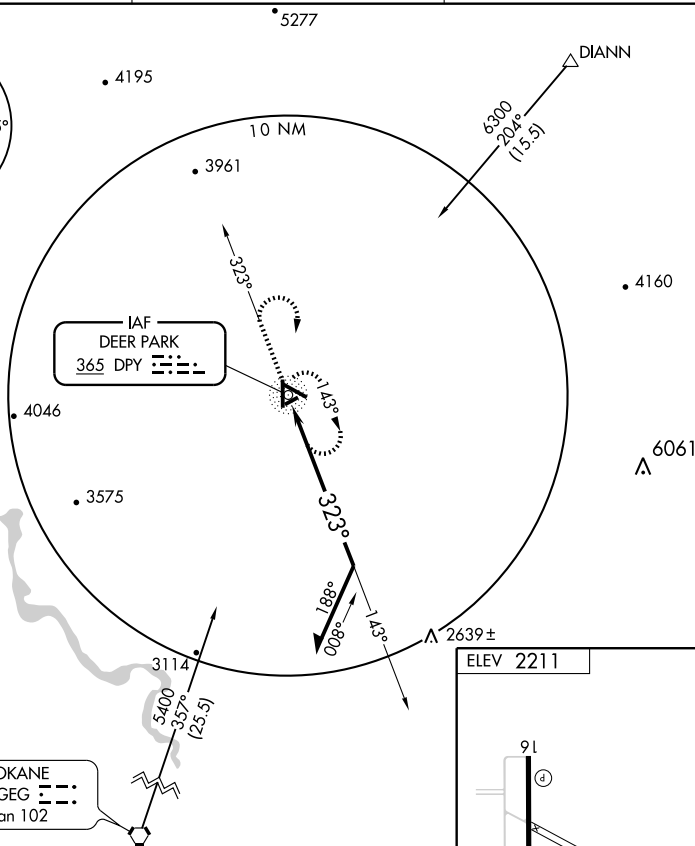
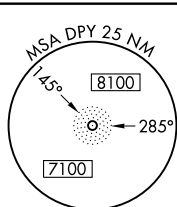
T Circling NA west of Rwy 16-34.

A NA When local altimeter setting not received, use Spokane Intl altimeter setting and increase all MDAs 80 feet and all visibilities ¼ mile.

MISSED APPROACH: Climb to 3600 via 323° bearing from DPY NDB then climbing right turn to 4500 direct DPY NDB and hold.

ASOS
135.175

SPOKANE APP CON
123.75 282.25

UNICOM
123.0 (CTAF) **L**

CATEGORY	A	B	C	D
CIRCLING	3000-1 789 (800-1)	3000-1¼ 789 (800-1¼)	3000-2¼ 789 (800-2¼)	3000-2½ 789 (800-2½)

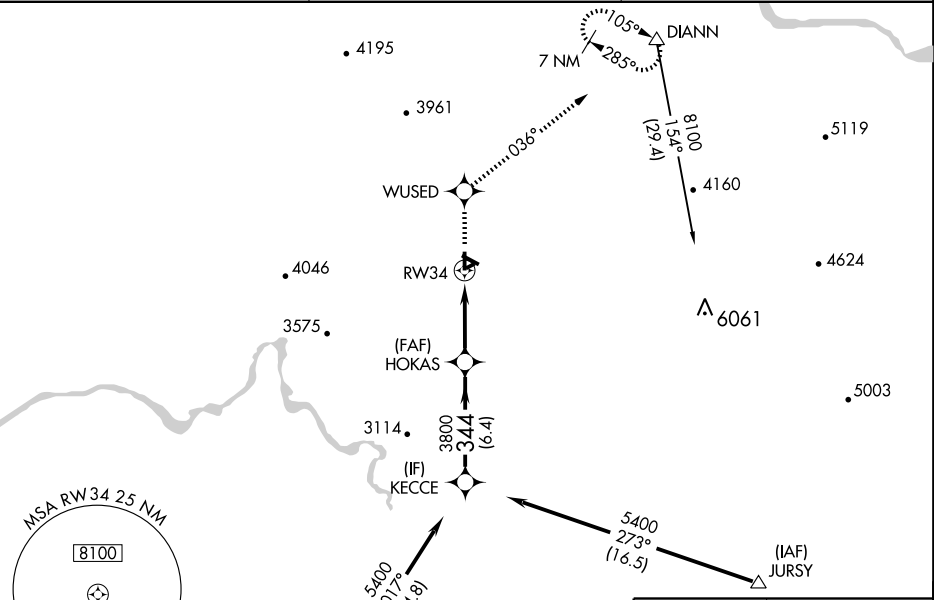
WAAS CH 61306 W34A	APP CRS 344°	Rwy Idg TDZE Apt Elev	6100 2201 2211
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RNAV (GPS) RWY 34
DEER PARK (DEW)

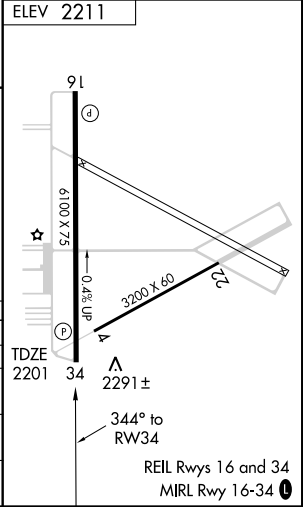
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F).
⚠ When local altimeter setting not received, use Spokane Intl altimeter setting and increase all DA/MDAs 80 feet and all visibilities ¼ mile. Circling not authorized west of Rwy 16-34. DME/DME RNP- 0.3 NA. VDP and Baro-VNAV NA when using Spokane Intl altimeter setting. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 8100 direct WUSED and via 036° track to DIANN and hold, continue climb-in- hold to 8100.

ASOS 135.175	SPOKANE APP CON 123.75 282.25	UNICOM 123.0 (CTAF) 0
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ELEV 2211				
8100	WUSED	036° tr	DIANN	KECCE
*LNAV only *1.2 NM to RW34				
RW34				
1.2 3.7 NM 6.4 NM				
CATEGORY	A	B	C	D
LPV DA	2466-1		265 (300-1)	
LNAV/VNAV DA	2551-1¼		350 (400-1¼)	
LNAV MDA	2600-1		399 (400-1)	
CIRCLING	2700-1 489 (500-1)		2700-1½ 489 (500-1½)	
		2780-2 569 (600-2)		



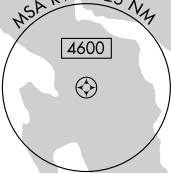
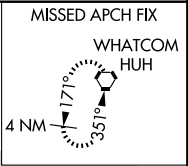
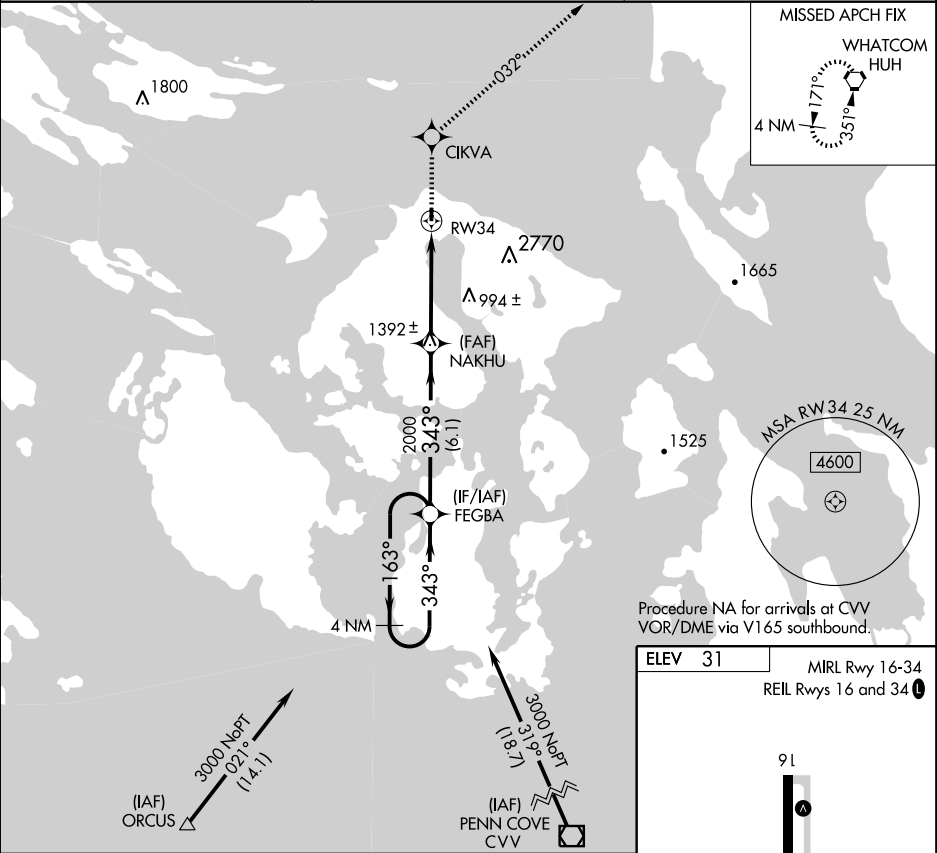
APP CRS	Rwy Idg	N/A
343°	TDZE	N/A
	Apt Elev	31

RNAV (GPS)-A
EASTSOUND/ORCAS ISLAND (ORS)

T DME/DME RNP- 0.3 NA. Procedure NA at night.
A When local altimeter setting not received, use Friday Harbor altimeter setting and increase MDA 40 feet.

MISSED APPROACH: Climb to 2000 direct CIKVA and via track 032° to HUH VORTAC and hold.

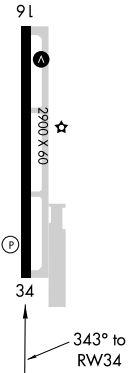
AWOS-3 135.425	WHIDBEY APP CON 118.2 285.65	CTAF 128.25 0
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Procedure NA for arrivals at CVV VOR/DME via V165 southbound.

ELEV 31	MIRL Rwy 16-34
	REIL Rws 16 and 34 0

4 NM Holding Pattern	FEGBA	2000	CIKVA	trk 032°	HUH
3000 ← 163°	343° →	343°	NAKHU	4.14° TCH 40	RW34
VGSI and descent angles not coincident.	6.1 NM	4.4 NM			
CATEGORY	A	B	C	D	
CIRCLING	1120-1¼ 1089 (1100-1¼)	1120-1½ 1089 (1100-1½)	NA		



APP CRS	Rwy Idg	5590
267°	TDZE	1755
	Apt Elev	1764

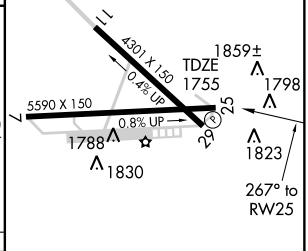
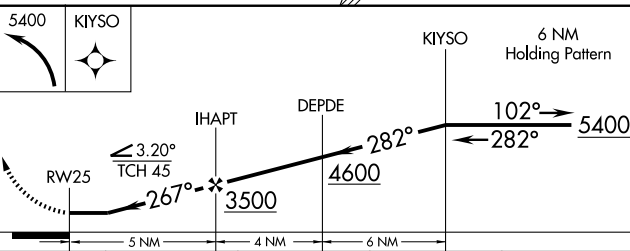
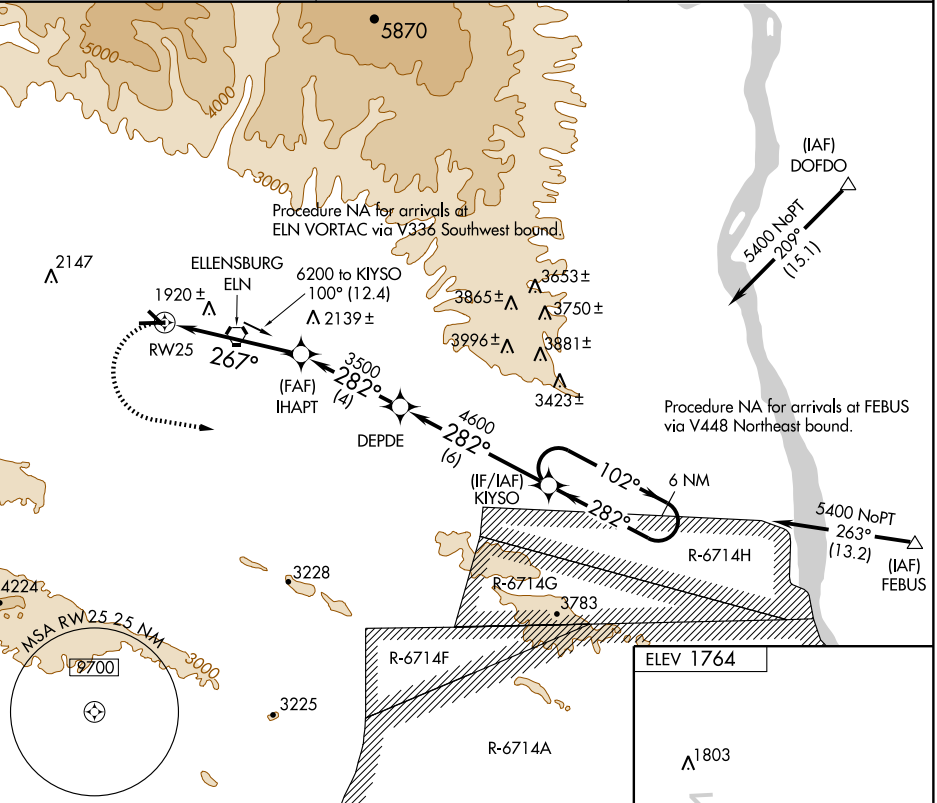
RNAV (GPS) RWY 25

ELLENSBURG/ BOWERS FIELD (ELN)

⚠ Straight-in minimums not authorized at night. DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. Procedure not authorized when R-6714A, F, G, H are in operation. When local altimeter setting not received, use Wenatchee altimeter setting and increase all MDA 140 feet and increase visibility LNAV Cat. B ¼ mile, Cats. C/D ½ mile, and increase circling visibility Cat. B ¼ mile, Cats. C/D ½ mile.

MISSED APPROACH:
Climbing left turn to 5400
direct KIYSO and hold.

ASOS 118.375	SEATTLE CENTER 132.6 269.35	UNICOM 123.0 (CTAF) 📻
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CATEGORY	A	B	C	D
LNAV MDA	2360-1 605 (600-1)	2360-1¾ 605 (600-1¾)	2360-2 605 (600-2)	2360-2 605 (600-2)
CIRCLING	2360-1 596 (600-1)	2360-1¾ 596 (600-1¾)	2500-2¼ 736 (800-2¼)	2500-2¼ 736 (800-2¼)

REIL Rwy 29
MIRL Rwy 11-29 **📻**

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS
297°

Rwy Idg
TDZE
Apt Elev

4301
1759
1764

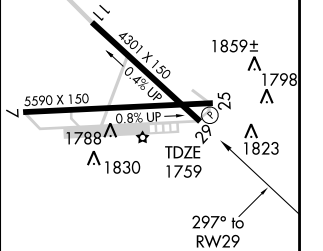
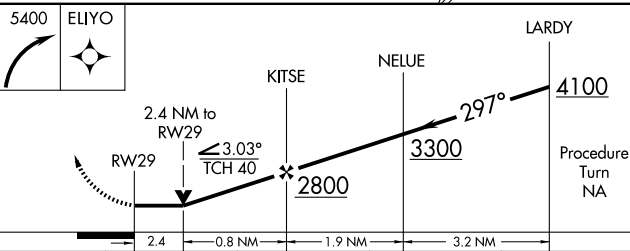
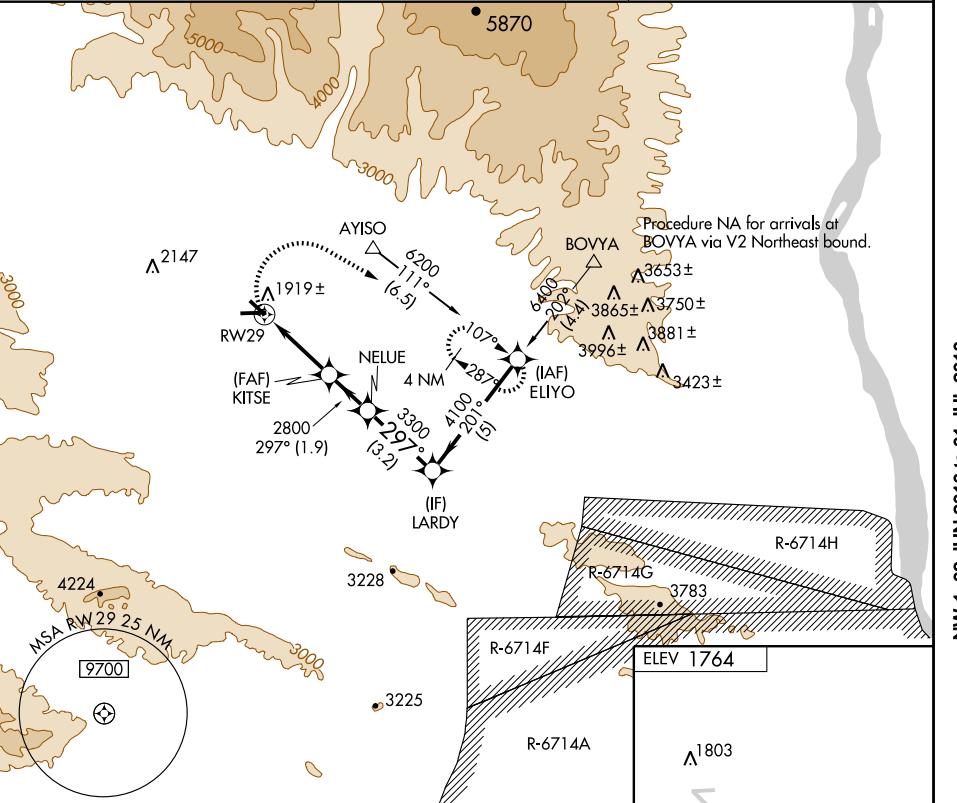
RNAV (GPS) RWY 29

ELLENSBURG/ BOWERS FIELD (ELN)

⚠ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Wenatchee altimeter setting and increase all MDA 140 feet and increase visibility LNAV Cat. A and circling Cat. A ¼ mile. VDP NA when using Wenatchee altimeter setting.

MISSED APPROACH: Climbing right turn to 5400 direct ELIYO and hold, continue climb-in hold to 5400.

ASOS 118.375	SEATTLE CENTER 132.6 269.35	UNICOM 123.0 (CTAF) ①
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CATEGORY	A	B	C	D
LNAV MDA	2560-1 801 (800-1)	2560-1¼ 801 (800-1¼)	NA	
CIRCLING	2560-1 796 (800-1)	2560-1¼ 796 (800-1¼)	NA	

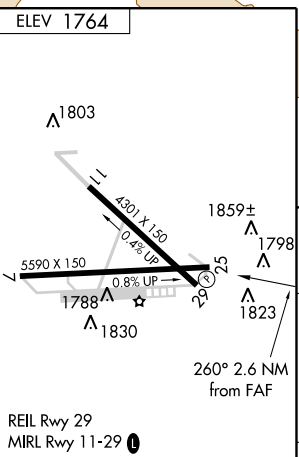
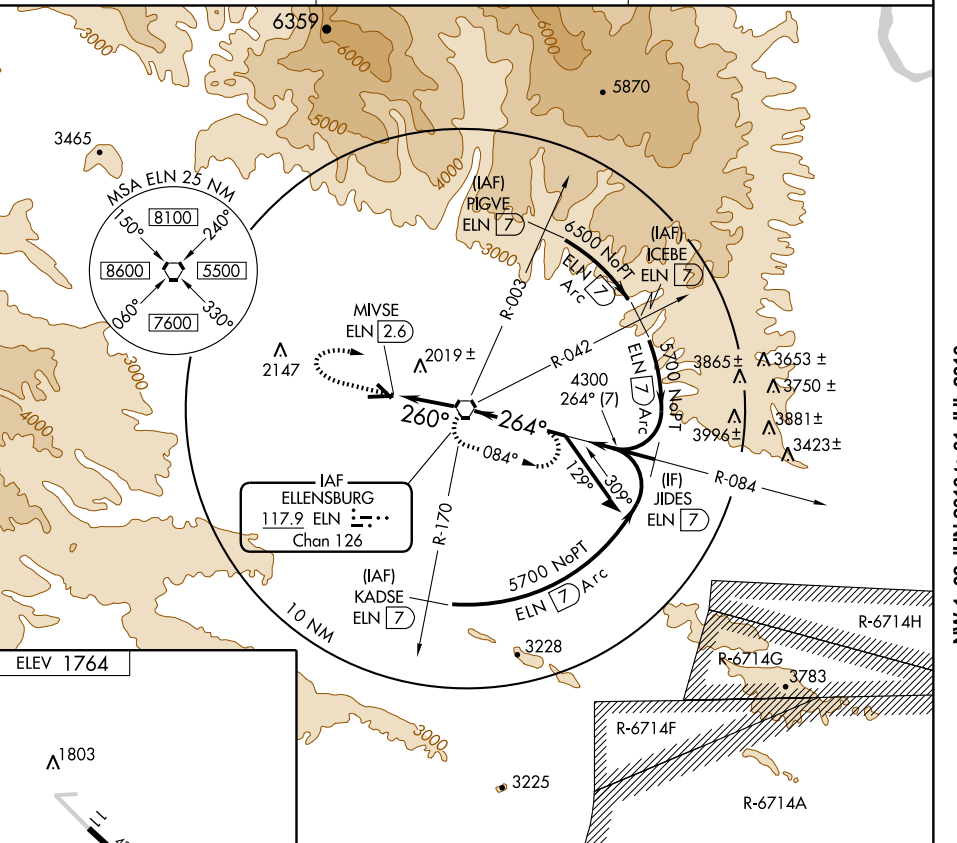
REIL Rwy 29
MIRL Rwy 11-29 **①**

NW-1. 03 JUN 2010 to 01 JUL 2010

When local altimeter setting not received, use Wentachee altimeter setting.

MISSED APPROACH: Climb to 4400 then climbing right turn to 5700 direct ELN VORTAC and hold, continue climb-in-hold to 5700. When authorized by ATC, climb-in-hold to MEA for direction of flight.

ASOS 118.375	SEATTLE CENTER 132.6 269.35	UNICOM 123.0 (CTAF) ①
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FAF to MAP 2.6 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	3260-1¼		NA	
Min:Sec	2:36	1:44	1:18	1:02	0:52		1496 (1500-1¼)			

NW-1, 03 JUN 2010 to 01 JUL 2010

VORTAC ELN	APP CRS	Rwy Idg TDZE	N/A
117.9	260°		N/A
Chan 126		Apt Elev	1763

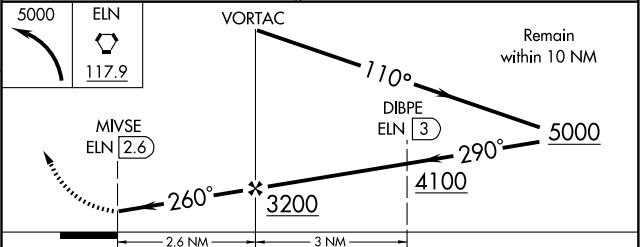
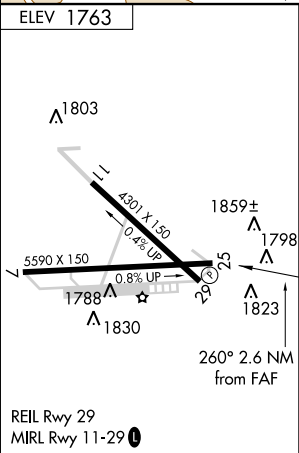
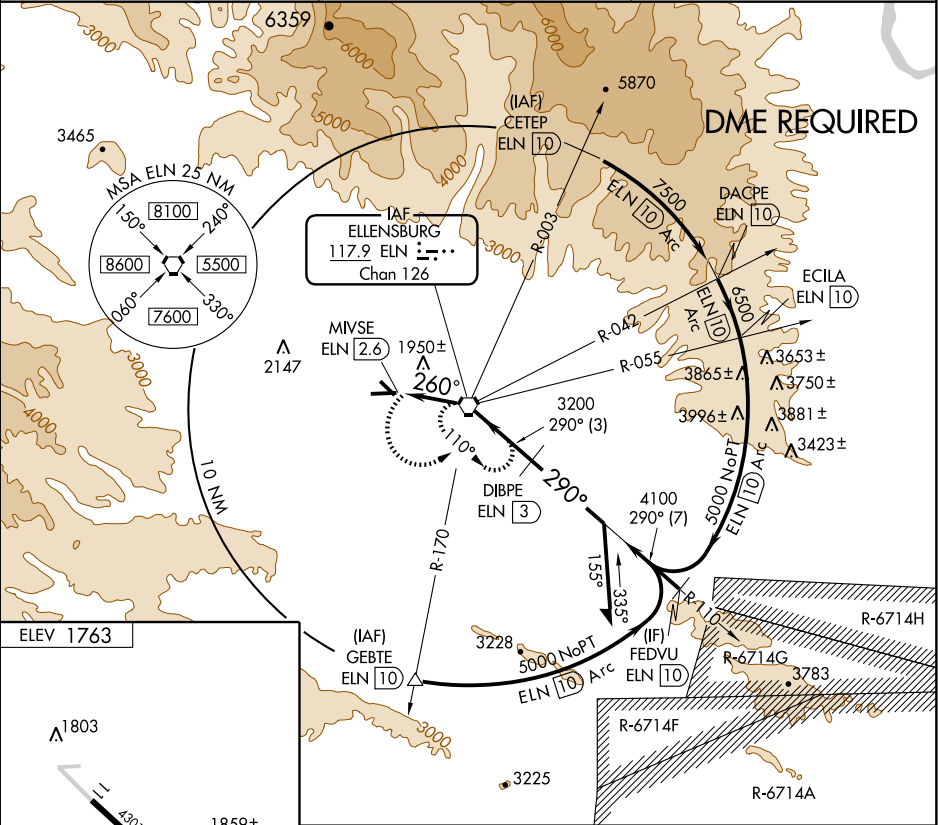
VOR/DME-A
ELLENSBURG/BOWERS FIELD (ELN)

▽ If local altimeter setting not received, use Wenatchee altimeter setting and increase all MDAs 140 feet.

△ NA Procedure not authorized when R-6714A, F, G, H are in operation.

MISSED APPROACH: Climbing left turn to 5000 direct ELN VORTAC and hold.

ASOS 118.375	SEATTLE CENTER 132.6 269.35	UNICOM 123.0 (CTAF) 0
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FAF to MAP 2.6 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	2280-1 517 (600-1)	2340-1 577 (600-1)	NA	
Min:Sec	2:36	1:44	1:18	1:02	0:52					

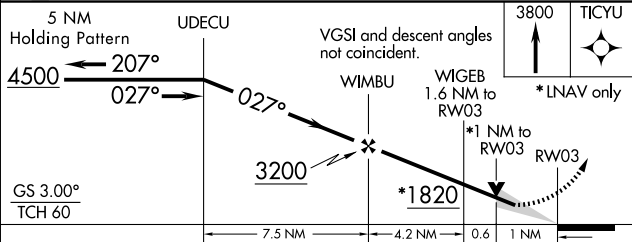
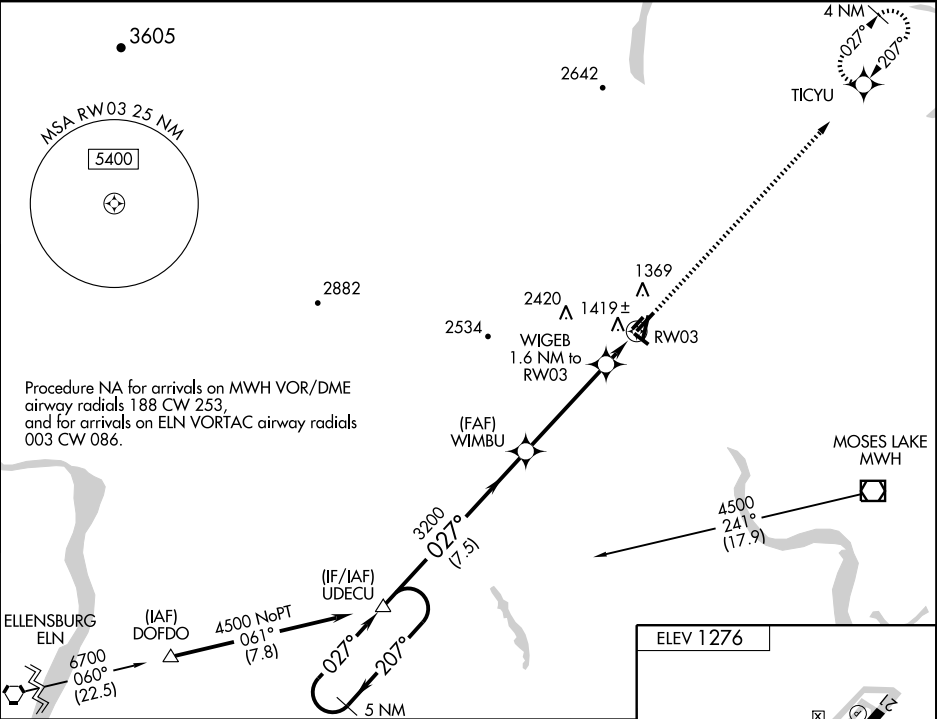
WAAS CH 50208 W03A	APP CRS 027°	Rwy Idg TDZE Apt Elev	5500 1269 1276
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RNAV (GPS) RWY 3
EPHRATA MUNI (EPH)

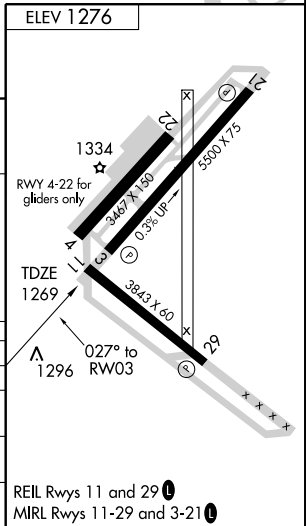
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA, VDP and Baro-VNAV NA when using Moses Lake/Grant County Intl altimeter setting. When local altimeter setting not received, use Moses Lake/Grant County Intl altimeter setting and increase all DA/MDA 40 feet and LNAV Cat D visibility ¼ mile.

MISSED APPROACH: Climb to 3800 direct TICYU and hold.

ASOS 135.775	GRANT COUNTY APP CON ★ 126.4 379.95	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA	1519-1	250 (300-1)		
LNAV/VNAV DA	1689-1½	420 (500-1½)		
LNAV MDA	1680-1 411 (500-1)	1680-1¼ 411 (500-1¼)		
CIRCLING	1720-1 444 (500-1)	1740-1 464 (500-1)	1780-1½ 504 (600-1½)	2500-3 1224 (1300-3)



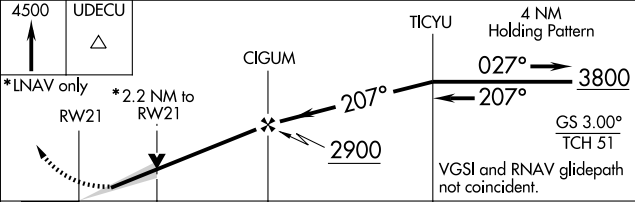
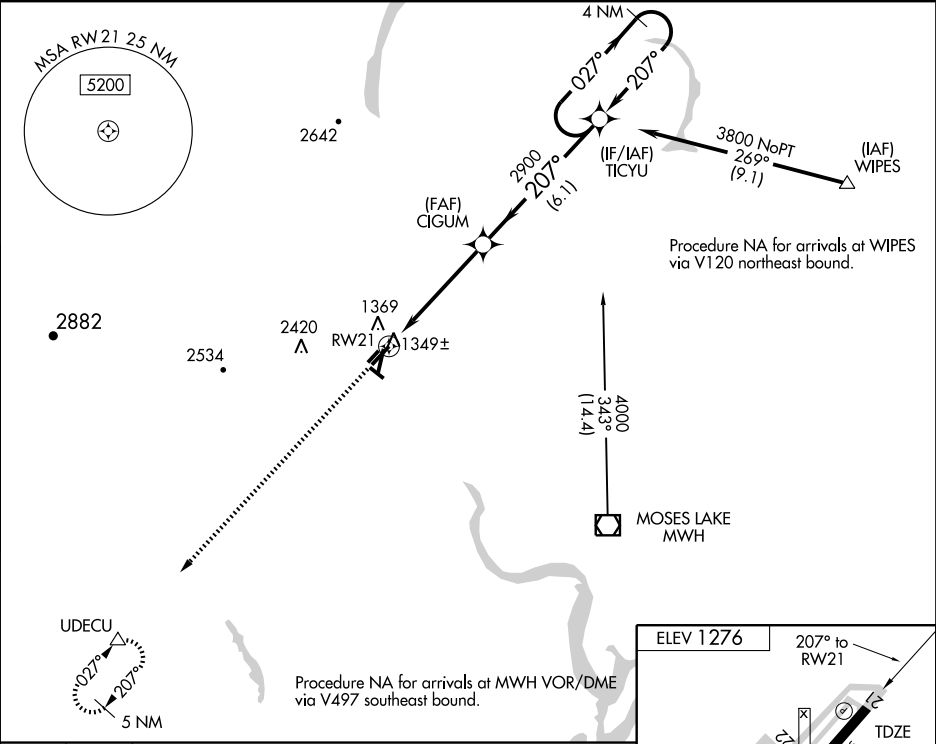
WAAS CH 82308 W21A	APP CRS 207°	Rwy Idg TDZE Apt Elev	5500 1276 1276
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RNAV (GPS) RWY 21
EPHRATA MUNI (EPH)

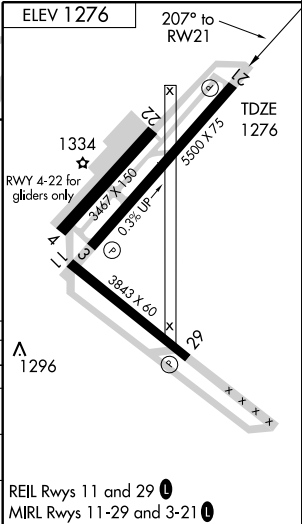
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. VDP and Baro-VNAV NA when using Moses Lake/Grant County Intl altimeter setting. When local altimeter setting not received, use Moses Lake/Grant County Intl altimeter setting and increase all DA/MDA 40 feet; Increase visibility LPV all Cats., LNAV Cats. C and D and Circling Cat. C ¼ mile.

MISSED APPROACH: Climb to 4500 direct UDECU and hold.

ASOS 135.775	GRANT COUNTY APP CON ★ 126.4 379.95	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA		1526-3/4	250 (300-3/4)	
LNAV/VNAV DA		2171-4	895 (900-4)	
LNAV MDA	2020-1 744 (800-1)	2020-1 1/4 744 (800-1 1/4)	2020-2 1/4 744 (800-2 1/4)	2020-2 1/2 744 (800-2 1/2)
CIRCLING	2020-1 744 (800-1)	2020-1 1/4 744 (800-1 1/4)	2020-2 1/4 744 (800-2 1/4)	2500-3 1224 (1300-3)



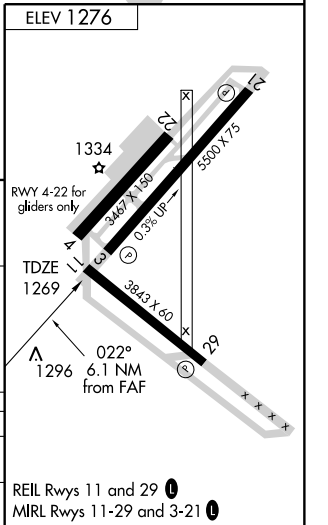
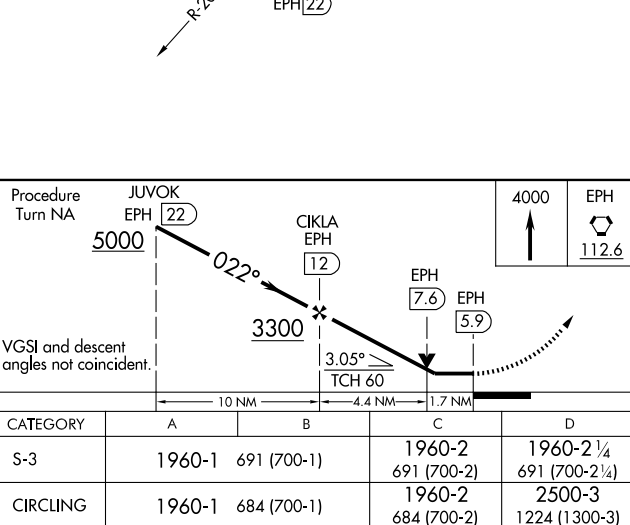
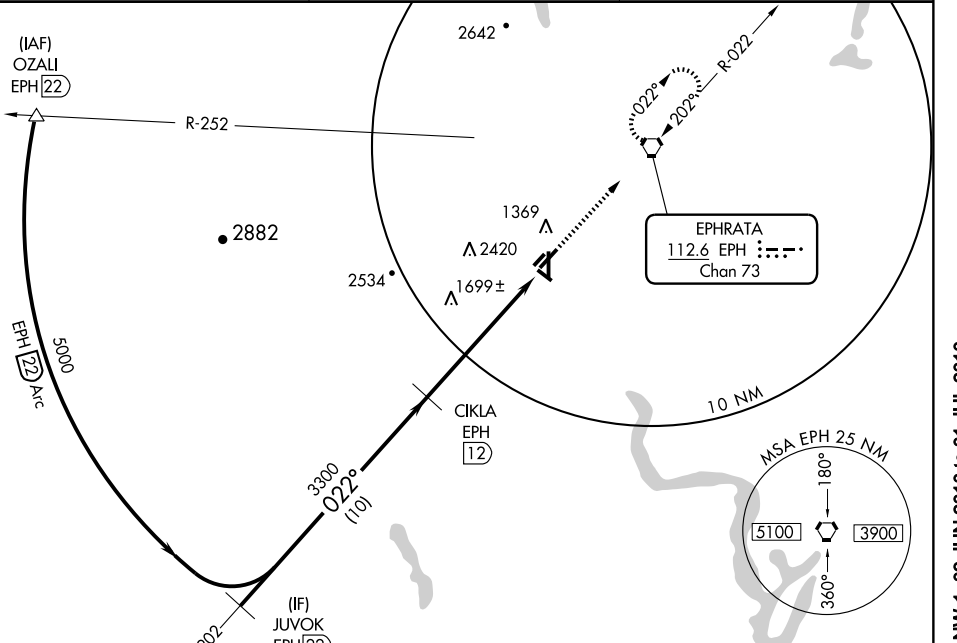
VORTAC EPH	APP CRS	Rwy Idg	5500
112.6	022°	TDZE	1269
Chan 73		Apt Elev	1276

When local altimeter setting not received, use Moses Lake/Grant County
Init altimeter setting and increase all MDA 40 feet.

VDP NA when using Moses Lake/Grant County Init altimeter setting.

MISSED APPROACH: Climb to 4000 direct EPH
VORTAC and hold, continue climb-in-hold to 4000.

ASOS 135.775	GRANT COUNTY APP CON ★ 126.4 379.95	UNICOM 122.8 (CTAF) 0
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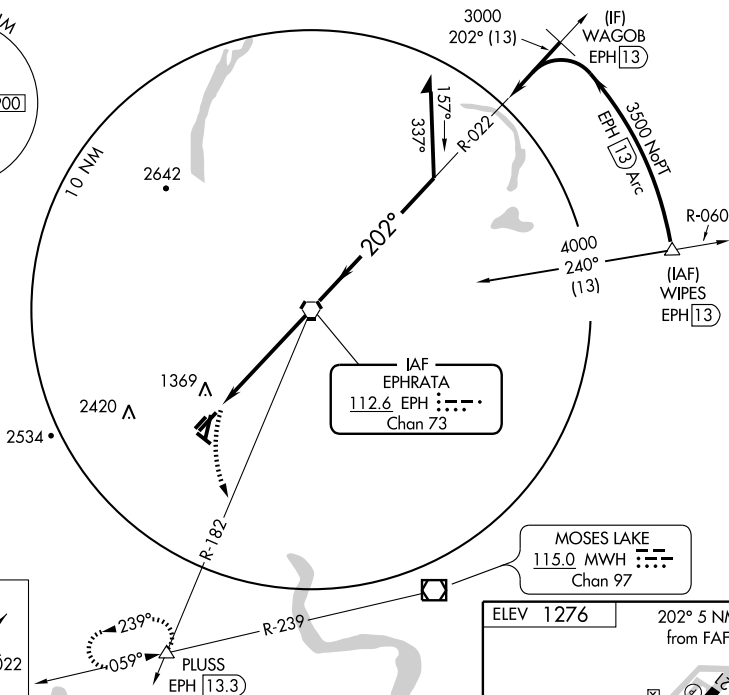
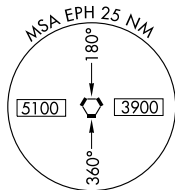



NW-1. 03 JUN 2010 to 01 JUL 2010

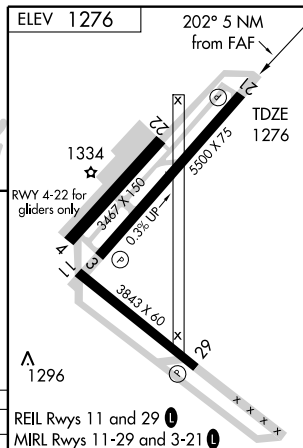
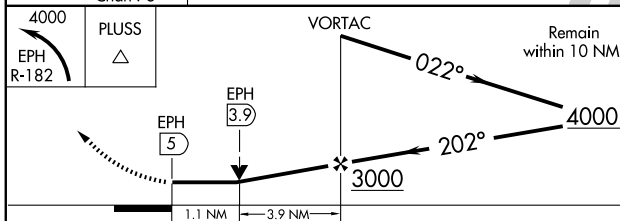
VOR RWY 21
EPHRATA MUNI (EPH)

MISSED APPROACH: Climbing left turn to 4000 via EPH R-182 to PLUSS INT/EPH 13.3 DME and hold. Continue climb-in-hold to 4000.

UNICOM
122.8 (CTAF) **L**



ALTERNATE
MISSED APCH FIX

EPHRATA
EPH 112.6
Chan 73



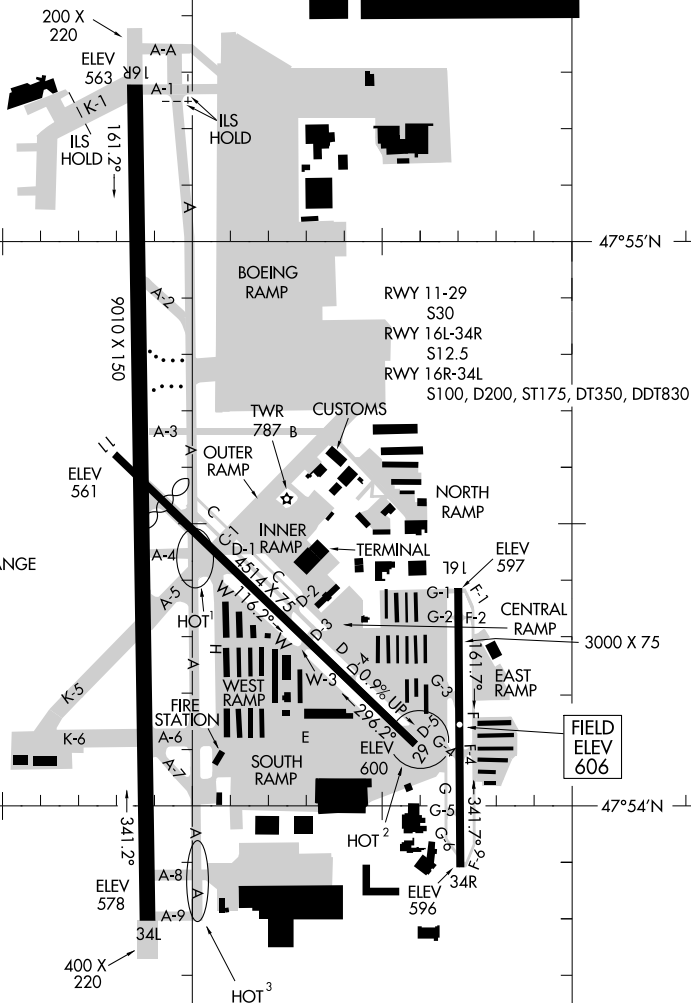
CATEGORY	A	B	C	D
S-21	1680-1	404 (500-1)	1680-1¼	404 (500-1¼)
CIRCLING	1720-1 444 (500-1)	1740-1 464 (500-1)	1780-1½ 504 (600-1½)	2500-3 1224 (1300-3)

FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

AIRPORT DIAGRAM

 EVERETT/ SNOHOMISH COUNTY (PAINE FIELD) (P.A.E)
 AL-142 (FAA) EVERETT, WASHINGTON

ATIS
 128.65
 PAINE TOWER★
 120.2 256.7 (East of Rwy 16L-34R)
 132.95 256.7 (West of Rwy 16R-34L)
 GND CON
 121.8 339.8
 CLNC DEL
 126.75



JANUARY 2005
 ANNUAL RATE OF CHANGE
 0.2° W

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
 READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

122°18'W

122°17'W

122°16'W

NW-1. 03 JUN 2010 to 01 JUL 2010

LOC I-PAE

109.3

APP CRS

159°

Rwy Idg
TDZE
Apt Elev

9010
570
606

ILS or LOC/DME RWY 16R

EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (PAE)

▼

▲

DME from PAE VOR/DME. Simultaneous reception of I-PAE and PAE DME required. When local altimeter setting not received, use Seattle-Tacoma Intl altimeter setting: increase DA to 858 feet; increase all MDA 100 feet, increase S-LOC 16R Cat C visibility to RVR 5000, Cat D to RVR 6000. For inoperative MALSR when using Seattle-Tacoma Intl altimeter setting, increase S-ILS 16R all Cats visibilities to RVR 5000.

MALSR

⋮

A5

MISSED APPROACH: Climb to 1300 then climbing right turn to 3000 via heading 014° and PAE VOR/DME R-338 to WEBVE INT/ PAE 13.9 DME and hold.

ATIS	SEATTLE CENTER	PAINE TOWER★		GND CON	CLNC DEL	UNICOM
128.65	128.5 306.9	(E of Rwy 16L-34R)	(W of Rwy 16R-34L)	121.8 339.8	126.75	122.95
		120.2 256.7	132.95 (CTAF) 256.7			

HIRL Rwy 16R-34L					
REIL Rwys 16L and 34R					
MIRL Rwys 11-29 and 16L-34R					
FAF to MAP 7.8 NM					
Knots	60	90	120	150	180
Min:Sec	7:48	5:12	3:54	3:07	2:36

One Minute Holding Pattern

WEBVE INT PAE 13.9

JAGBA PAE 7.9

1300

3000

PAE R-338 110.6

WEBVE INT

3000

339°

159°

159°

3000

3000

6 NM


7.8 NM

CATEGORY	A	B	C	D		
S-ILS 16R	786/24 216 (200-½)					
S-LOC 16R	1020/24 450 (500-½)	1020/40 450 (500-¾)	1020/50 450 (500-1)			
CIRCLING	1100-1 494 (500-1)	1100-1½ 494 (500-1½)				
		1160-2 554 (600-2)				

NW-1, 03 JUN 2010 to 01 JUL 2010


PAINE TWO DEPARTURE


ATIS 128.65
CLNC DEL
126.75
GND CON
121.8 339.8
PAINE TOWER ★
120.2 256.7 (E of Rwy 16L-34R)
132.95 (CTAF) 256.7 (W of Rwy 16R-34L)
SEATTLE CENTER
128.5 306.9


WHATCOM
113.0 HUH 
Chan 77
N48°56.72'-W122°34.76'
L-1, H-1


TAKE-OFF MINIMUMS


Rwys 16R, 34L, 34R: Standard.
Rwys 11, 16L, 29: 300-1.


WHIDBEY ISLAND
113.8 NUW 
Chan 85
N48°21.30'-W122°39.71'
L-1, H-1


PAINE
110.6 PAE 
Chan 43
N47°55.19'-W122°16.67'
L-1, H-1


SEATTLE
116.8 SEA 
Chan 115
N47°26.12'-W122°18.58'
L-1, H-1


WENATCHEE
111.0 EAT 
Chan 47
N47°23.98'-W120°12.65'
L-13

McCHORD
109.6 TCM 
Chan 33
N47°08.86'-W122°28.50'
L-1, H-1

ELLENSBURG
117.9 ELN 
Chan 126
N47°01.46'-W120°27.51'
L-13, H-1

HOQUIAM
117.7 HQM 
Chan 124
N46°56.82'-W124°08.96'
L-1, H-1

OLYMPIA
113.4 OLM 
Chan 81
N46°58.30'-W122°54.11'
L-1, H-1

YAKIMA
116.0 YKM 
Chan 107
N46°34.22'-W120°26.68'
L-13, H-1

TAKE-OFF OBSTACLE NOTES

Rwy 11: 72' AGL tree 1160' from DER, 600' left of centerline.

Rwy 16L: 68' and 101' AGL trees 1040' to 1820' from DER, 480' to 560' left of centerline.

Rwy 29: 56', 69', 101', 128' AGL trees 340' to 2140' from DER.

NOTE: Center may assign initial heading to be flown and vector departures in all quadrants within 10 miles of the Paine Airport provided no altitude restrictions are imposed prior to reaching MVA.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

Fly Runway heading or as assigned; expect vectors to join assigned route.

Maintain assigned altitude; expect filed altitude/flight level five minutes after departure.

LOST COMMUNICATIONS: If not in contact with SEATTLE CENTER upon reaching 2000', continue climb to assigned altitude and proceed direct to PAE VOR/DME. Thence via assigned route.

WAAS CH 60911 W16A	APP CRS 159°	Rwy ldg TDZE Apt Elev	9010 570 606
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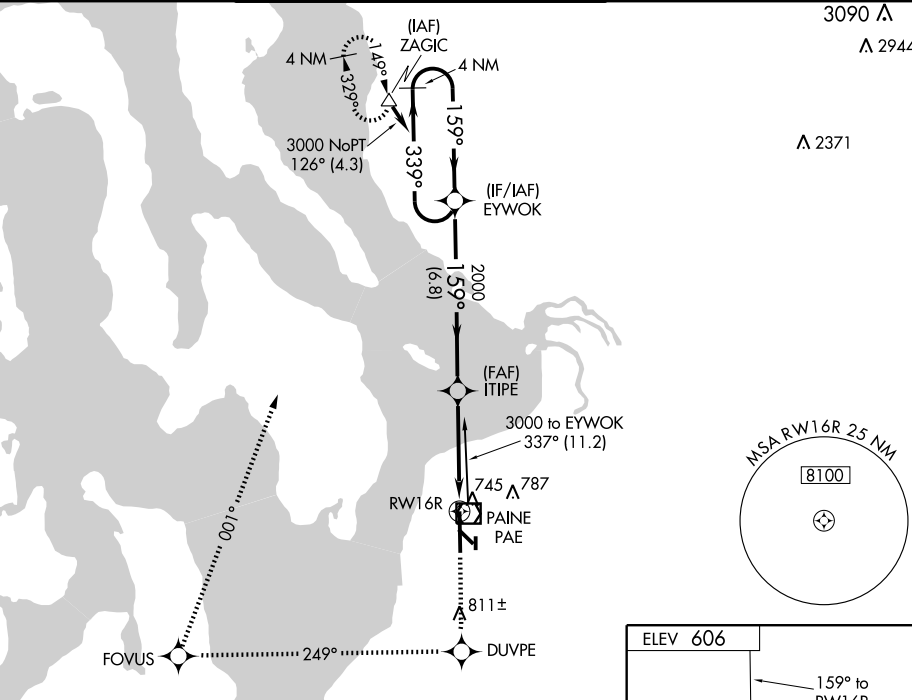
RNAV (GPS) RWY 16R

EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (PAE)

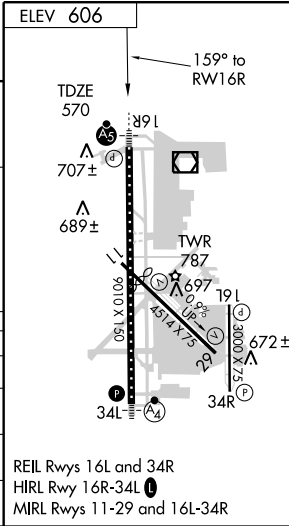
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -16°C (4°F) or above 47°C (116°F).
DME/DME RNP-0.3 NA.
For inoperative MALSR, increase LPV all Cats visibility to RVR 5000.

MALSR
MISSED APPROACH: Climb to 3000 direct DUVPE and via track 249° to FOVUS and via track 001° to ZAGIC and hold.

ATIS 128.65	SEATTLE CENTER 128.5 306.9	PAINE TOWER★ (E of Rwy 16L-34R) (W of Rwy 16R-34L) 120.2 256.7 132.95 (CTAF) 256.7	GND CON 121.8 339.8	CLNC DEL 126.75	UNICOM 122.95
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VGSI and RNAV glidepath not coincident.		3000	DUVPE	FOVUS	ZAGIC
4 NM Holding Pattern		↑	✧	✧	△
EYWOK		trk 249°	trk 001°		
3000		ITPE	*1.4 NM to RW16R	RW16R	*LNAV only
← 339° →		159°	2000		
GS 3.00° TCH 51		6.8 NM	2.9 NM	1.4 NM	
CATEGORY	A	B	C	D	
LPV DA	830/24		260 (300-½)		
LNAV/VNAV DA	1045/60		475 (500-1¼)		
LNAV MDA	1060/24 490 (500-½)		1060/40 490 (500-¾)	1060/50 490 (500-1)	
CIRCLING	1100-1 494 (500-1)		1100-½ 494 (500-1½)	1180-2 574 (600-2)	



REIL Rwy 16L and 34R
HIRL Rwy 16R-34L
MIRL Rwy 11-29 and 16L-34R

WAAS CH 65611 W34A	APP CRS 339°	Rwy Idg 9010 TDZE 579 Apt Elev 606
--	------------------------	---

RNAV (GPS) RWY 34L

EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (PAE)

DME/DME RNP-0.3 NA.

Baro-VNAV NA below -16°C (4°F).

Inoperative table does not apply to LPV and LNAV/VNAV
all Cats and LNAV Cat C.

MALSF



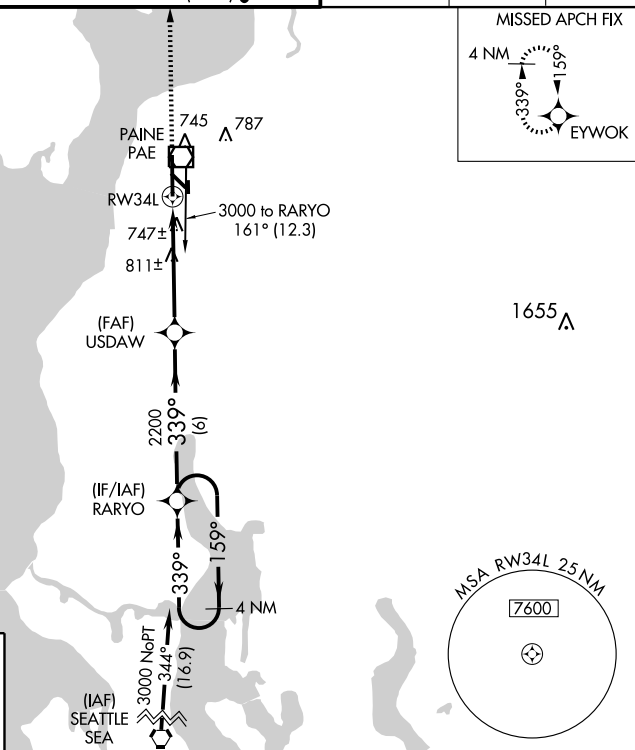
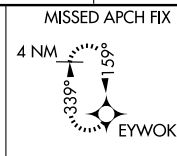
MISSED APPROACH: Climb to 3000 direct
EYWOK and hold.

ATIS
128.65

SEATTLE CENTER
128.5 306.9

PAINE TOWER*			
(E of Rwy 16L-34R)		(W of Rwy 16R-34L)	
120.2	256.7	132.95 (CTAF)	256.7

GND CON
121.8 339.8

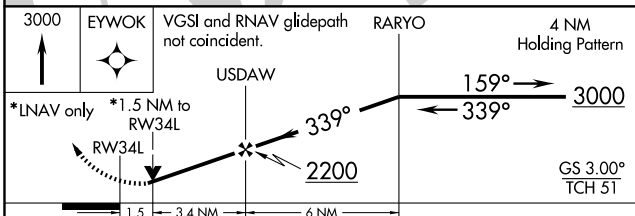
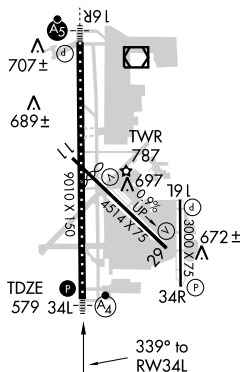
CLNC DEL
126.75UNICOM
122.95

ELEV 606

REIL Rwy 16L and 34R

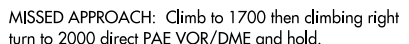
HIRL Rwy 16R-34L

MIRL Rwy's 11-29 and 16L-34R

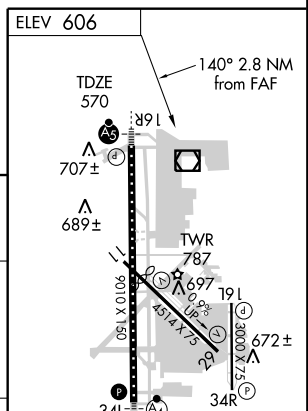
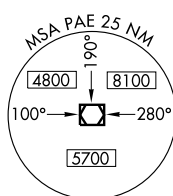


CATEGORY	A	B	C	D
LPV DA	920-1¼	341 (400-1¼)		
LNAV/ VNAV DA	1040-1½	461 (500-1½)		
LNAV MDA	1140-¾ 561 (600-¾)	1140-1½ 561 (600-1½)	1140-1¾ 561 (600-1¾)	
CIRCLING	1140-1½ 534 (600-1½)		1180-2 574 (600-2)	

EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (PAE)



CLNC DEL	UNICOM
126.75	122.95



HIRL Rwy 16R-34L **L**
REIL Rwy 16L and 34R
MIRL Rwy 11-29 and 16L-34R

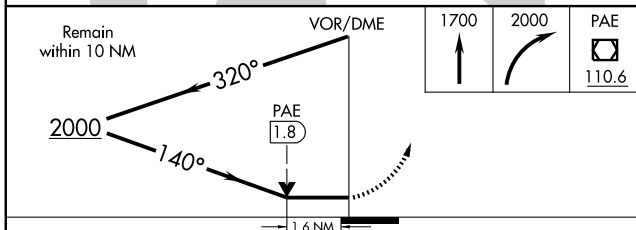
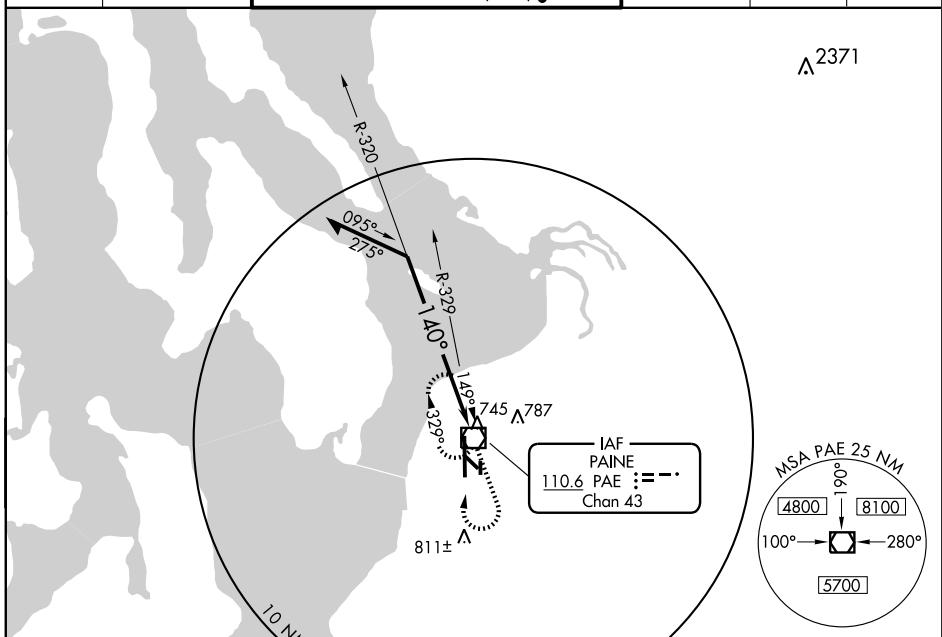
VOR/DME PAE 110.6 Chan 43	APP CRS 140°	Rwy Idg 9010 TDZE 570 Apt Elev 606
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VOR RWY 16R

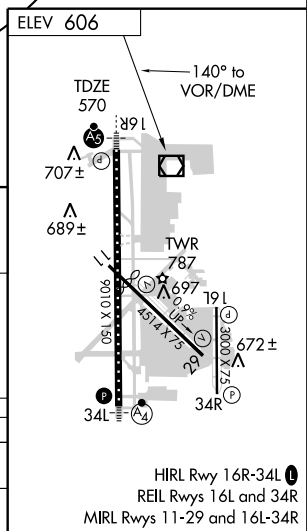
EVERETT/SNOHOMISH COUNTY (PAINE FIELD) (PAE)

	MALSR 	MISSED APPROACH: Climb to 1700 then climbing right turn to 2000 direct PAE VOR/DME and hold.
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ATIS 128.65	SEATTLE CENTER 128.5 306.9	PAINÉ TOWER ★ (E of Rwy 16L-34R) (W of Rwy 16R-34L) 120.2 256.7 132.95 (CTAF) 0 256.7		GND CON 121.8 339.8	CLNC DEL 126.75	UNICOM 122.95
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CATEGORY	A	B	C	D
S-16R	1100/24	530 (500-½)	1100/50 530 (500-1)	1100/60 530 (500-1¼)
CIRCLING	1100-1	494 (500-1)	1100-1½ 494 (500-1½)	1180-2 574 (600-2)



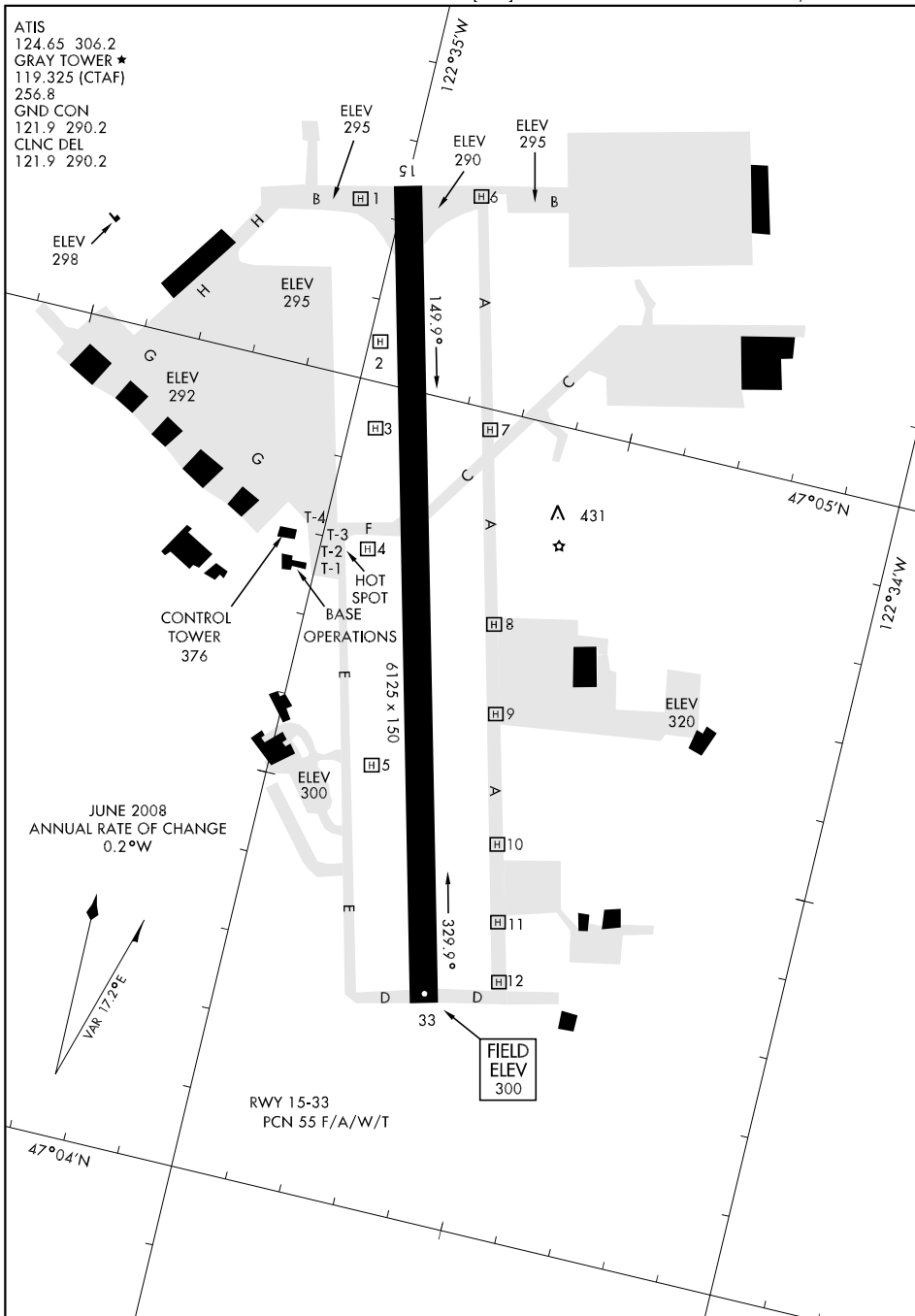
AIRPORT DIAGRAM

AFD-413 [USA]

FORT LEWIS, WASHINGTON

ATIS
124.65 306.2
GRAY TOWER ★
119.325 (CTAF)
256.8
GND CON
121.9 290.2
CLNC DEL
121.9 290.2

NW-1, 03 JUN 2010 to 01 JUL 2010



AIRPORT DIAGRAM

FORT LEWIS, WASHINGTON

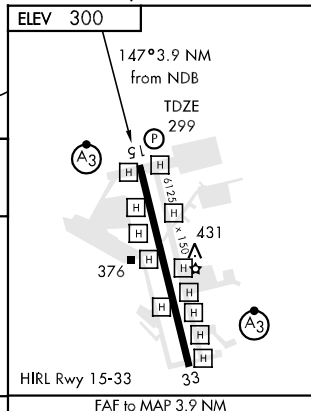
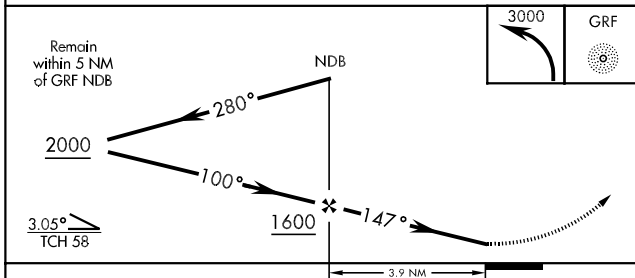
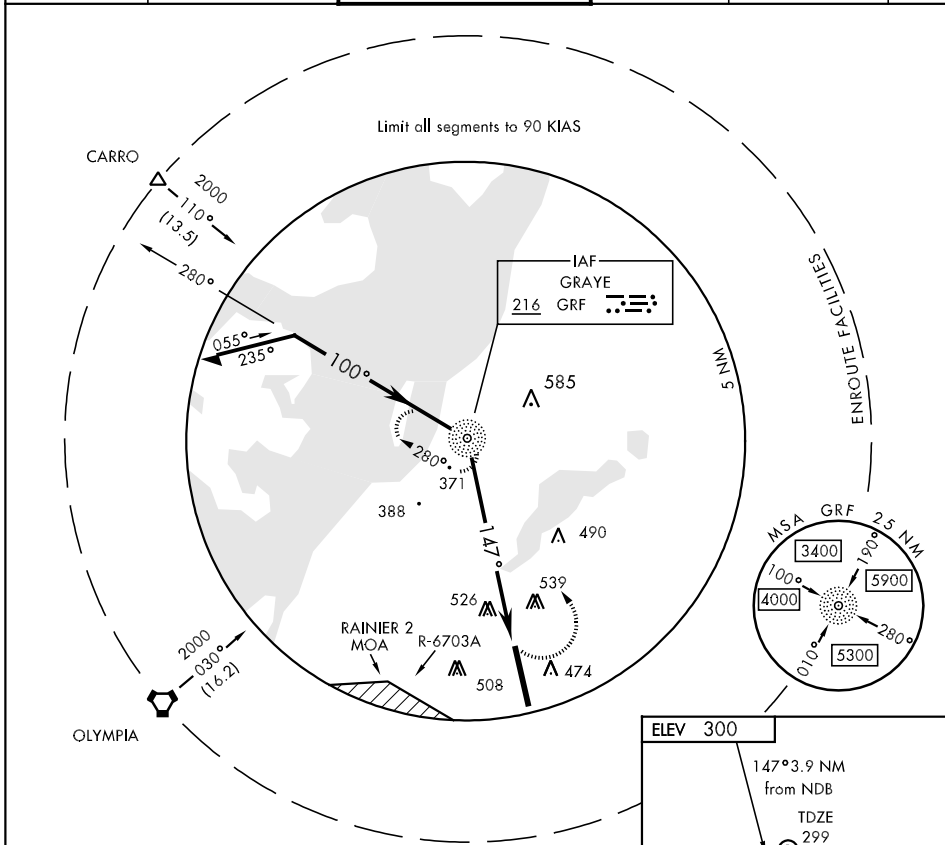
NDB GRF 216	APCH CRS 147°	Rwy ldg TDZE Arpt Elev 6125 299 300
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AL-413 [USA]

GRAY AAF (KGRF)

 	* When ALS inop increase RVR to 24 and vis to ½ mile.	 	MISSED APPROACH: Climbing left turn to 3000 direct GRF NDB and hold.
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ATIS 124.65 306.2	SEATTLE APP CON 120.1 290.9	GRAY TOWER ★ 119.325 (CTAF) 256.8	GND CON 121.9 290.2	CLNC DEL 121.9 290.2	PAR
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CATEGORY	COPTER	Knots	45	60	75	90	105
H-15 *	840/12 541 (600-¼)	Min:Sec	5:12	3:54	3:08	2:36	2:14

LOC I-GRF 108.3 Chan 20	APCH CRS 147°	Rwy Idg TDZE Arpt Elev 6125 299 300
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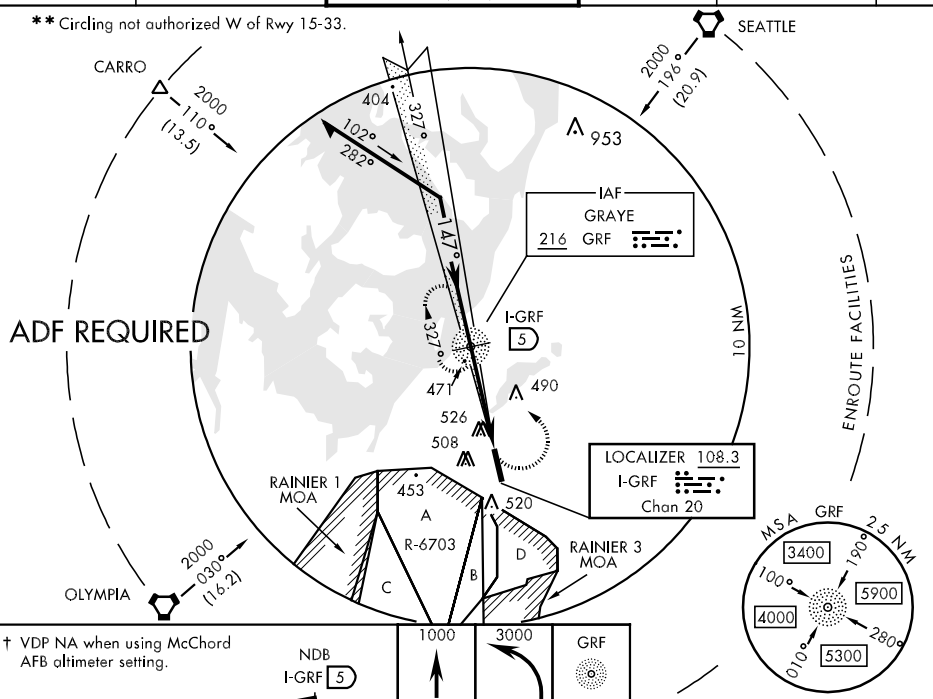
AL-413 [USA]

GRAY AAF (KGRF)

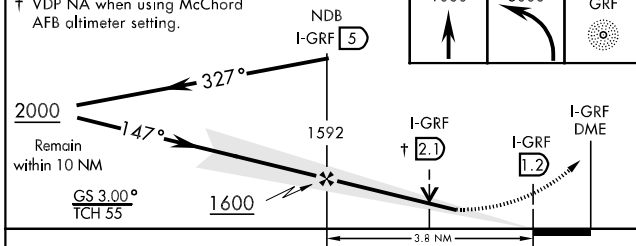
▽ ▲	* When ALS inop, increase CAT CD RVR to 50 and vis to 1 mile.	SSALR A3	MISSED APPROACH: Climb to 1000, then climbing left turn to 3000 direct GRF NDB and hold, continue climb-in-hold to 3000.
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ATIS 124.65 306.2	SEATTLE APP CON 120.1 290.9	GRAY TOWER ★ 119.325 (CTAF) 256.8	GND CON 121.9 290.2	CLNC DEL 121.9 290.2	PAR
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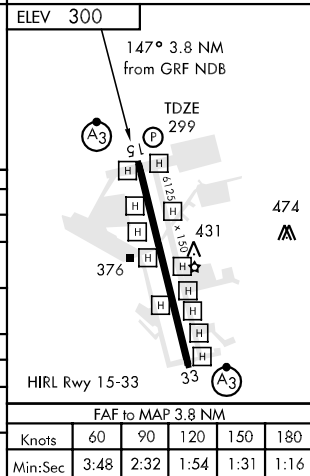
** Circling not authorized W of Rwy 15-33.



† VDP NA when using McChord AFB altimeter setting.



CATEGORY	A	B	C	D
S-ILS 15		499/24	200	(200-½)
S-LOC 15 *	660/24	361 (400-½)	660/40	361 (400-¾)
CIRCLING **	780-1	480 (500-1)	780-1½ 480 (500-1½)	860-2 560 (600-2)
McCHORD AFB ALTIMETER SETTING MINIMUMS				
S-ILS 15		515/24	216	(300-½)
S-LOC 15 *	680/24	381 (400-½)	680/40	381 (400-¾)
CIRCLING **	800-1	500 (500-1)	800-1½ 500 (500-1½)	880-2 580 (600-2)



ATIS 124.65 306.2
CLNC DEL
121.9 290.2
GND CON
121.9 290.2
GRAY TOWER ★
119.325 (CTAF) 256.8
SEATTLE DEP CON
120.1 290.9

Rwy	Knots	60	120	180	240
15 (a)	V/V(fpm)	430	860	1290	1720
33 (b)	V/V(fpm)	380	760	1140	1520

ATC Climb Rate

(a) To 500'

(b) To 600'



SEATTLE
116.8 SEA
Chan 115

R-202

270°

202°

600'

558

R-6703

600'

OLYMPIA
113.4 OLM
Chan 81
L-1

MC CHORD
109.6 TCM
Chan 33

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 15 AND 33:

Climb via runway heading to 600', then turn left (unless otherwise directed by ATC) heading 270 for vectors to assigned route. Maintain altitude as assigned by ATC. Expect filed altitude within five minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received within three minutes after departure, continue climb to assigned altitude, intercept and proceed via SEA R-202 to OLM VORTAC, thence via assigned route.

NDB GRF 216	APCH CRS 147°	Rwy Idg TDZE Arpt Elev 6125 299 300
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AL-413 [USA]

GRAY AAF (KGRF)

▼ * When ALS inop increase CAT AB RVR to 50 and vis to 1 mile, CAT C vis to 1½ miles, CAT D vis to 1¾ miles.

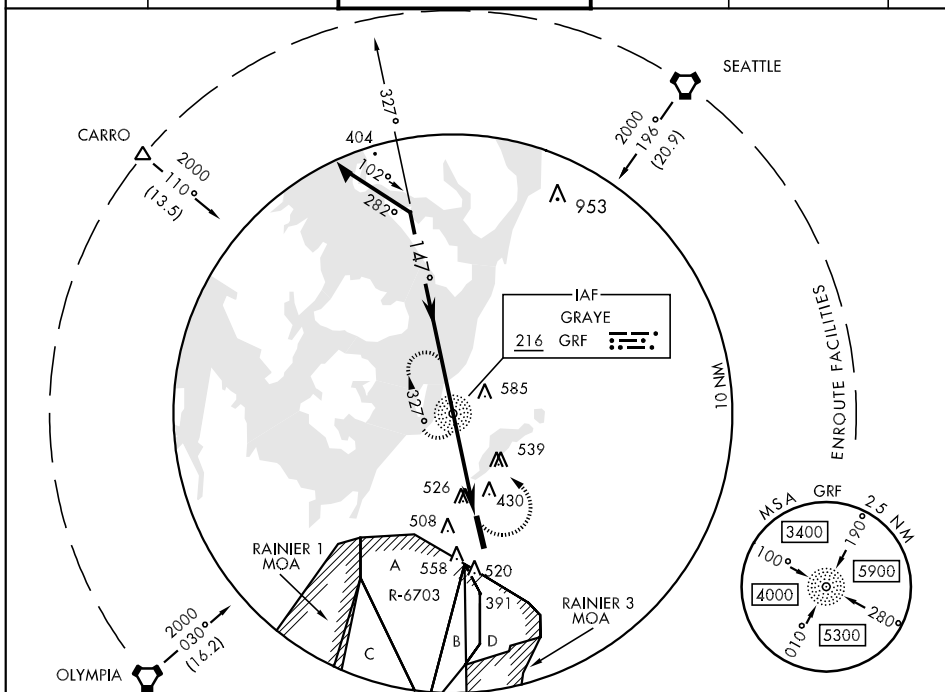
▲ ** Circling not authorized W of Rwy 15-33.

SSALR



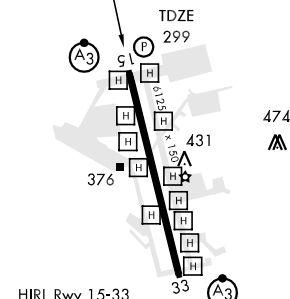
MISSED APPROACH: Climbing left turn to 3000 direct GRF NDB and hold.

ATIS 124.65 306.2	SEATTLE APP CON 120.1 290.9	GRAY TOWER ★ 119.325 (CTAF) 256.8	GND CON 121.9 290.2	CLNC DEL 121.9 290.2	PAR
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ELEV 300

147° 3.9 NM
from NDB



Remain
within 10 NM

2000

2.85°
TCH 40

NDB

3000

GRF

327°

147°

1600

3.9 NM

CATEGORY	A	B	C	D
S-15 *	840/24 541 (600-½)	840/50 541 (600-1)	840-60 541 (600-1¼)	
CIRCLING **	840-1 540 (600-1)	840-1½ 540 (600-½)	860-2 560 (600-2)	

McCHORD AFB ALTITUDE SETTING MINIMUMS

S-15 *	860/24 561 (600-½)	860/50 561 (600-½)	860-60 561 (600-1¼)
CIRCLING **	860-1½ 560 (600-½)	860-2 560 (600-2)	880-2½ 580 (600-2½)

NDB LAC
328APCH CRS
327°Rwy Idg
TDZE
Arpt Elev
6125
300
300

AL-413 [USA]

GRAY AAF (KGRF)



* When ALS inop increase CAT AB vis to 1 mile,
CAT C vis to 1 1/4 miles, CAT D vis to 1 1/2 miles.



** Circling not authorized W of Rwy 15-33.

SSALR



MISSED APPROACH: Climb to 2000
direct to GRF NDB and hold.

ATIS

124.65 306.2

SEATTLE APP CON

120.1 290.9

GRAY TOWER ★

119.325 (CTAF) 256.8

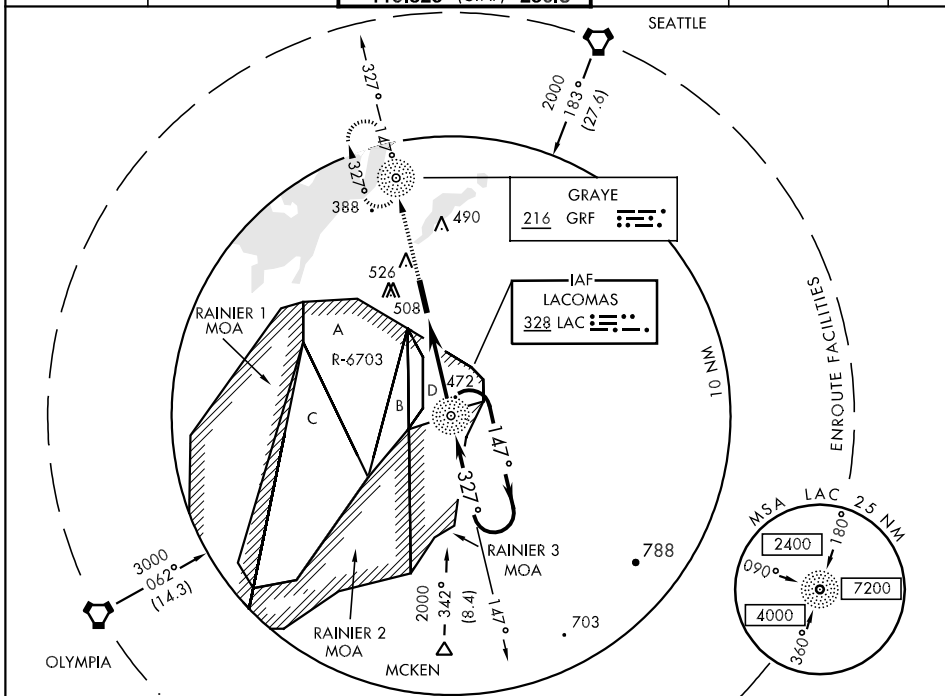
GND CON

121.9 290.2

CLNC DEL

121.9 290.2

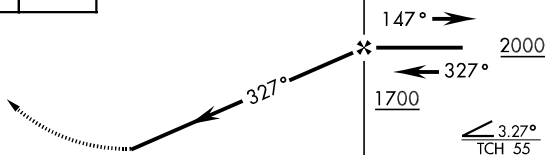
PAR



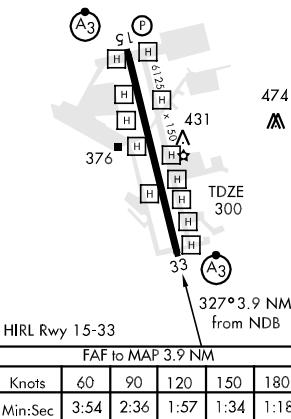
GRF

LACOMAS
NDB

ELEV 300



CATEGORY	A	B	C	D
S-33 *	780-1/2 480 (500-1/2)	780-3/4 480 (500-3/4)	780-1 480 (500-1)	780-1 480 (500-1)
CIRCLING **	780-1 480 (500-1)	780-1 1/2 480 (500-1 1/2)	860-2 560 (600-2)	860-2 560 (600-2)
McCHORD AFB ALTITUDE SETTING MINIMUMS				
S-33 *	800-1/2 500 (600-1/2)	800-3/4 500 (600-3/4)	800-1 500 (600-1)	800-1 500 (600-1)
CIRCLING **	800-1 500 (600-1)	800-1 1/2 500 (600-1 1/2)	880-2 580 (600-2)	880-2 580 (600-2)



APCH CRS **147°**
 Rwy Idg **6125**
 TDZE **299**
 Arpt Elev **300**

AL-413 [USA]

GRAY AAF (KGRF)



* Circling not authorized W of Rwy 15-33.

DME/DME RNP-0.3 NA

SSALR



MISSED APPROACH: Climbing left
 turn to 2000 direct CIKRI and hold.

ATIS
124.65 306.2

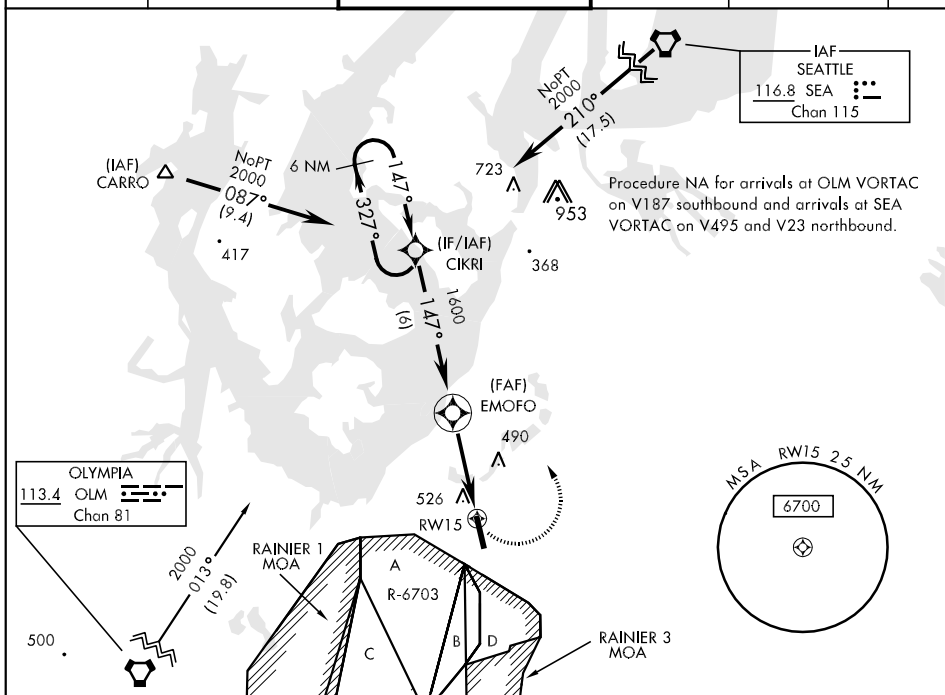
SEATTLE APP CON
120.1 290.9

GRAY TOWER ★
119.325 (CTAF) 256.8

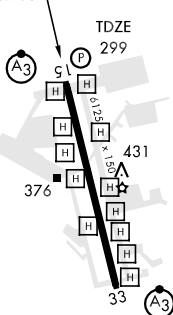
GND CON
121.9 290.2

CLNC DEL
121.9 290.2

PAR



ELEV 300

147°
to RW15

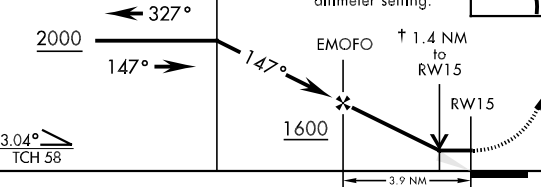
HIRL Rwy 15-33

VGSI and descent angles
 not coincident. CIKRI

† VDP NA with
 McChord AFB
 altimeter setting.

2000

CIKRI



CATEGORY	A	B	C	D
LNAV MDA	780/24 481 (500-½)	780/40 481 (500-¾)	780/50 481 (500-1)	780/50 481 (500-1)
CIRCLING *	780-1 480 (500-1)	780-1½ 480 (500-1½)	860-2 560 (600-2)	860-2 560 (600-2)
McCHORD AFB ALTIMETER SETTING MINIMUMS				
LNAV MDA	800/24 501 (600-½)	800/50 501 (600-1)	800/50 501 (600-1)	800/50 501 (600-1)
CIRCLING *	800-1 500 (500-1)	800-1½ 500 (500-1½)	880-2 580 (600-2)	880-2 580 (600-2)

APCH CRS **327°**
 Rwy Idg **6125**
 TDZE **300**
 Arpt Elev **300**

AL-413 [USA]

GRAY AAF (KGRF)



* Circling not authorized W of Rwy 15-33.

SSALR



MISSED APPROACH: Climb to 2000
 direct to GRF NDB and hold.

DME/DME RNP-0.3 NA

ATIS
124.65 306.2

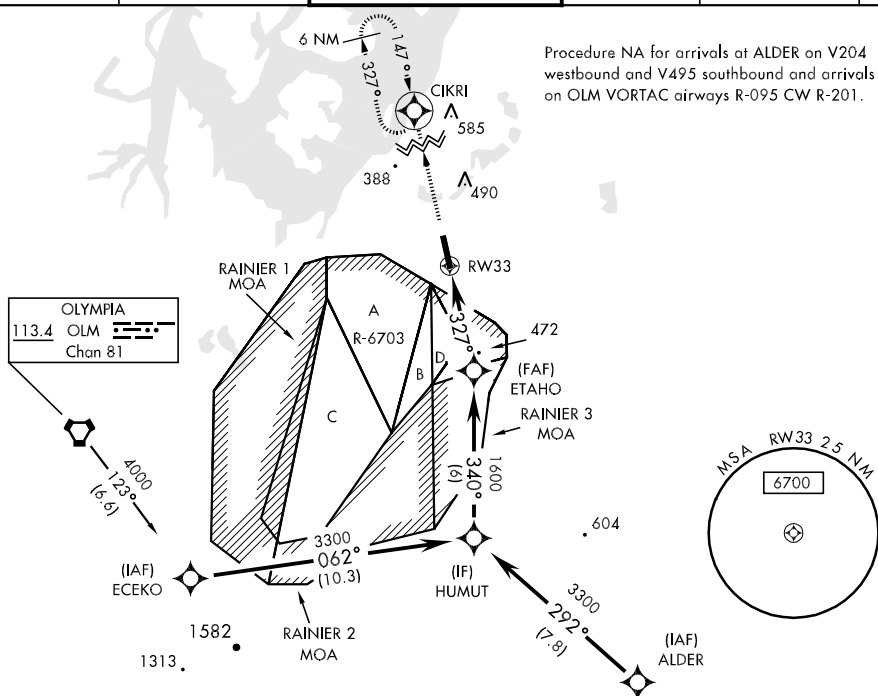
SEATTLE APP CON
120.1 290.9

GRAY TOWER ★
119.325 (CTAF) 256.8

GND CON
121.9 290.2

CLNC DEL
121.9 290.2

PAR



2000



† VDP NA with
 McChord AFB
 altimeter setting.

† 1.3 NM to RW33

ETAHO

HUMUT

3300

1600

327°

3.9 NM

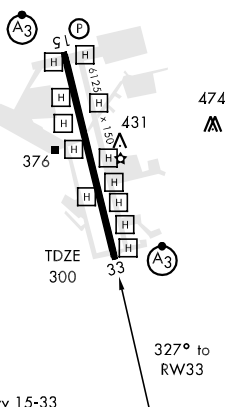
340°

3.03°

TCH 55

CATEGORY	A	B	C	D
LNAV MDA	780-½ 480 (500-½)	780-¾ 480 (500-¾)	780-1 480 (500-1)	780-1 480 (500-1)
CIRCLING *	780-1 480 (500-1)	780-1½ 480 (500-1½)	860-2 560 (600-2)	860-2 560 (600-2)
McCHORD AFB ALTIMETER SETTING MINIMUMS				
LNAV MDA	800-½ 500 (500-½)	800-¾ 500 (500-¾)	800-1 500 (500-1)	800-1 500 (500-1)
CIRCLING *	800-1 500 (500-1)	800-1½ 500 (500-1½)	880-2 580 (600-2)	880-2 580 (600-2)

ELEV 300



NDB RWY 34

FRIDAY HARBOR (FHR)

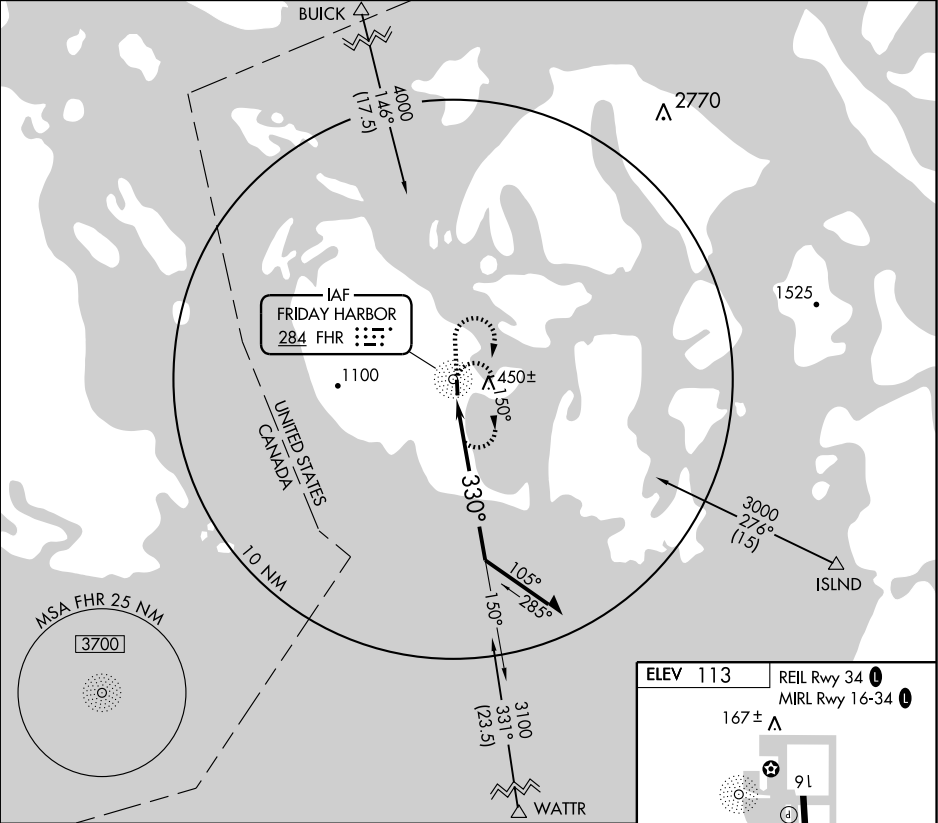
NDB FHR	APP CRS	Rwy Idg	3402
284	330°	TDZE	107
		Apt Elev	113

⚠ **⚠** NA

Circling not authorized west of Rwy 16-34.

MISSED APPROACH: Climb to 1200 then climbing right turn to 2200 direct to FHR NDB and hold.

ASOS 135.675	WHIDBEY APP CON 118.2 285.65	CTAF 128.25
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1200 ↑

2200 ↻

FHR 284

NDB

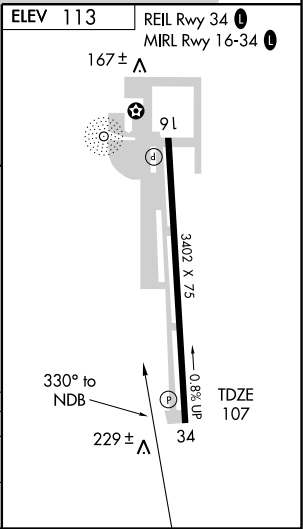
150°

330°

2000

Remain within 10 NM

CATEGORY	A	B	C	D
S-34	860-1 753 (800-1)	860-1¼ 753 (800-1¼)	860-2¼ 753 (800-2¼)	NA
CIRCLING	860-1 747 (800-1)	860-1¼ 747 (800-1¼)	860-2¼ 747 (800-2¼)	NA



WAAS CH 40024 W34A	APP CRS 337°	Rwy Idg 3402 TDZE 108 Apt Elev 113
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RNAV (GPS) RWY 34

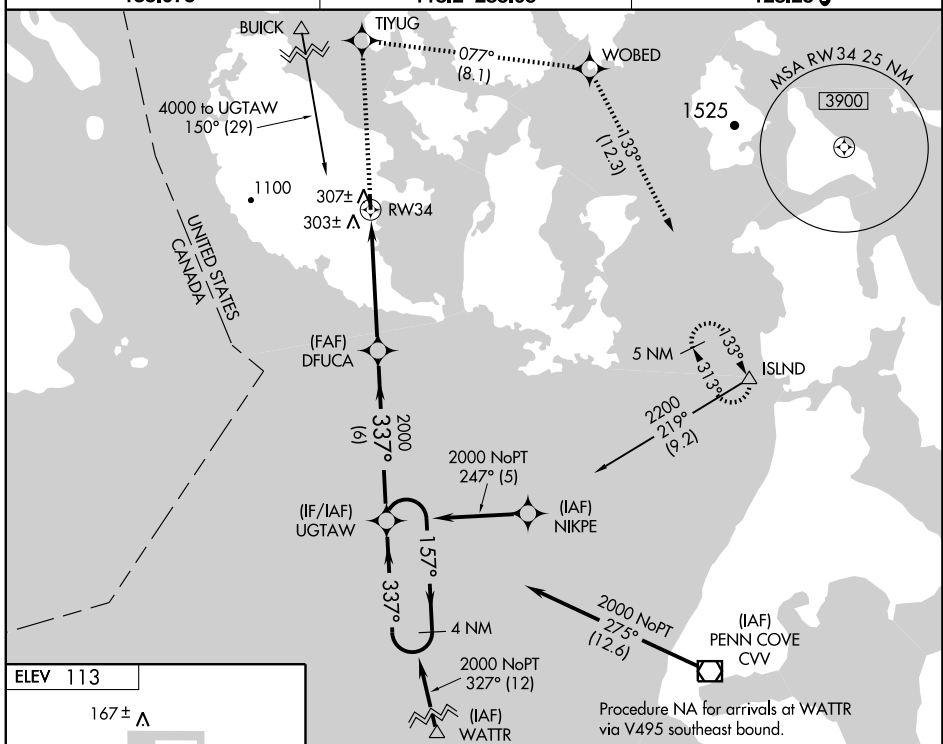
FRIDAY HARBOR (FHR)

DME/DME RNP-0.3 NA. Circling not authorized west of Rwy 16-34.
Baro-VNAV NA below -30°C (-22°F).
When VGSI inoperative, procedure NA at night.

MISSED APPROACH: Climb to 5000 direct
TIYUG and via 077° track to WOBD
and via 133° track to ISLND and hold.

ASOS
135.675

WHIDBEY APP CON
118.2 285.65

CTAF
128.25

NW-1. 03 JUN 2010 to 01 JUL 2010

ELEV 113

 $167 \pm \Delta$

1

TDZE
108

REIL Rwy 34 **L**MIRL Rwy 16-34 **L**

5000 ↑	TIYUG ✦	077° TRK	WOBED ✦	133° TRK	ISLND △	UGTAW 4 NM Holding Pattern
<div><div><div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></div><div></div><div></div></div><div><div></div><div></div><div></d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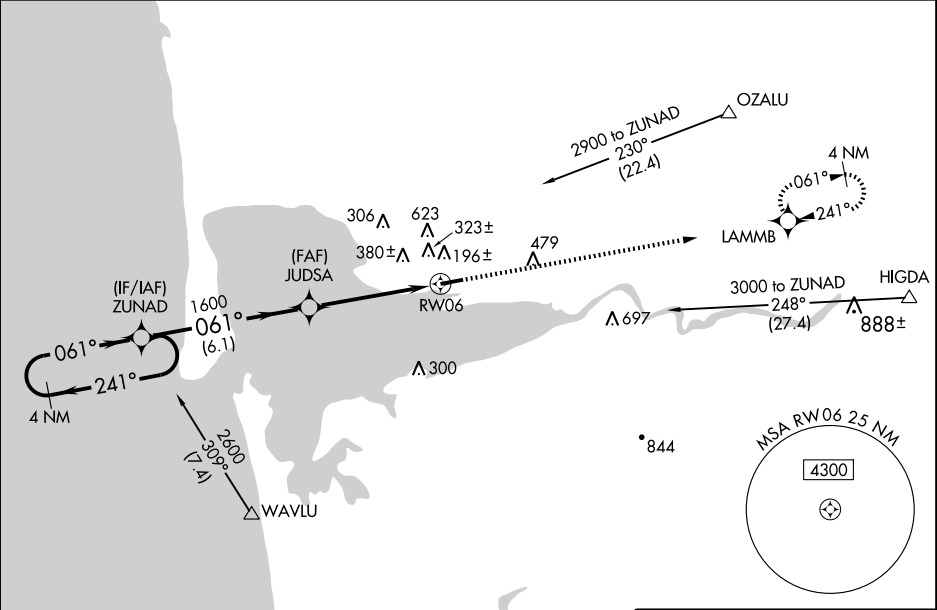
WAAS CH 82015 W06A	APP CRS 061°	Rwy Idg 5000 TDZE 18 Apt Elev 18
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RNAV (GPS) RWY 6
HOQUIAM/ BOWERMAN (HQM)

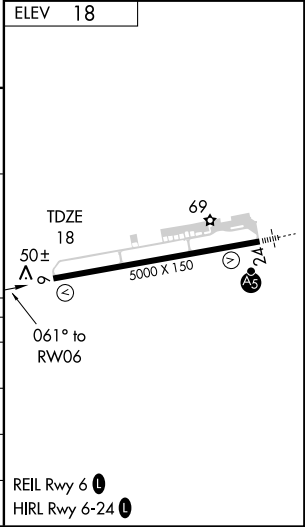
⚠ Circling NA northwest of Rwy 6-24.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 2900 direct LAMMB and hold.

ASOS 135.775	SEATTLE CENTER 128.3 269.0	UNICOM 122.7 (CTAF) 1
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4 NM Holding Pattern					2900	LAMMB
ZUNAD					JUDSA	
2600					1600	
GS 3.00° TCH 52					RWY 06	
					6.1 NM	
					4.7 NM	
CATEGORY	A	B	C	D		
LPV DA	308-1 290 (300-1)					
LNAV/VNAV DA	758-2½ 740 (800-2½)					
LNAV MDA	620-1	602 (700-1)	620-1¾ 602 (700-1¾)	620-2 602 (700-2)		
CIRCLING	620-1	602 (700-1)	620-1¾ 602 (700-1¾)	620-2 602 (700-2)		



WAAS CH 86902 W24A	APP CRS 241°	Rwy Idg TDZE Apt Elev	5000 16 18
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RNAV (GPS) RWY 24

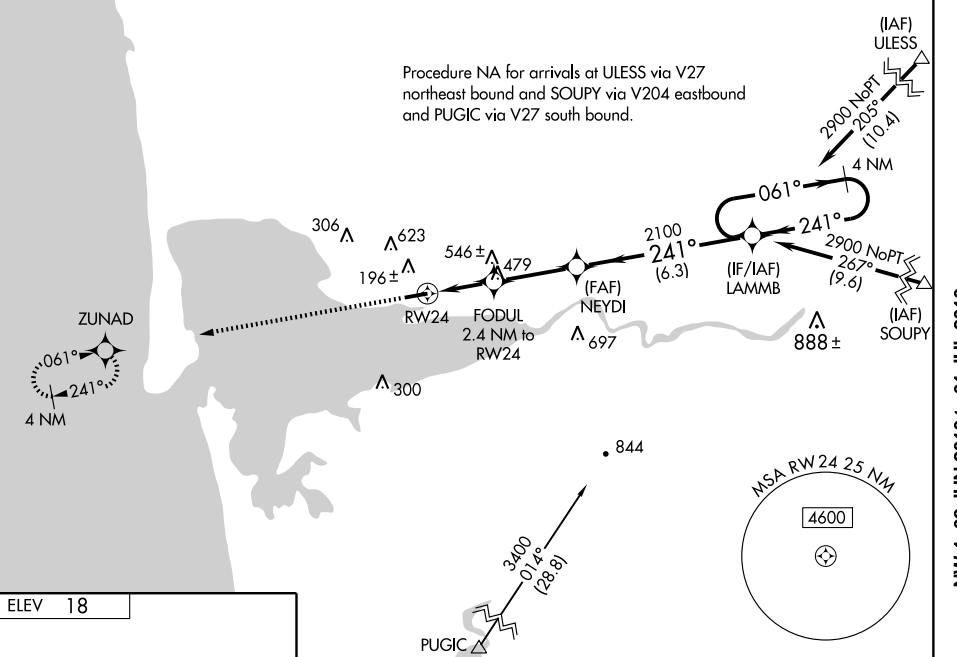
HOQUIAM/ BOWERMAN (HQM)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 47°C (116°F). Inoperative table does not apply to LPV. DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA. For inoperative MALSR, increase LNAV Cat A visibility to 1 mile. Circling NA northwest of Rwy 6-24. When local altimeter setting not received, procedure NA.

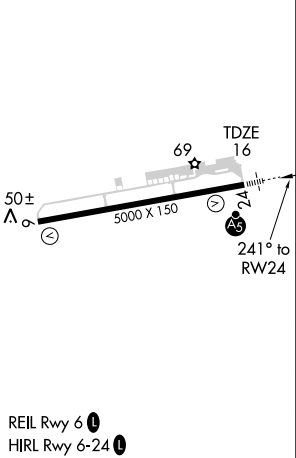
MALSR

MISSED APPROACH: Climb to 2600 direct ZUNAD and hold.

ASOS 135.775	SEATTLE CENTER 128.3 269.0	UNICOM 122.7 (CTAF) 0
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ELEV 18



2600	ZUNAD	VGSI and RNAV glidepath not coincident.	LAMMB	4 NM Holding Pattern
↑				
		NEYDI		
		FODUL 2.4 NM to RW24		
		960		
		241°		
		2100		
		061°		
		241°		
		2900		
		GS 3.50° TCH 55		
		2.4 NM	3 NM	6.3 NM
CATEGORY	A	B	C	D
LPV DA	216-3/4	200 (200-3/4)	286-1 270 (300-1)	NA
LNAV/VNAV DA	1029-2 1/2 1013 (1100-2 1/2)			NA
LNAV MDA	800-3/4	784 (800-3/4)	800-1 3/4 784 (800-1 3/4)	NA
CIRCLING	800-1 782 (800-1)	800-1 1/4 782 (800-1 1/4)	800-2 1/4 782 (800-2 1/4)	NA

NW-1. 03 JUN 2010 to 01 JUL 2010

⚠

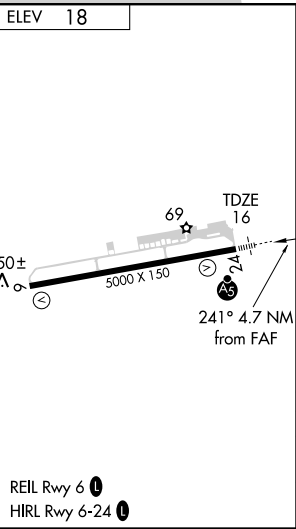
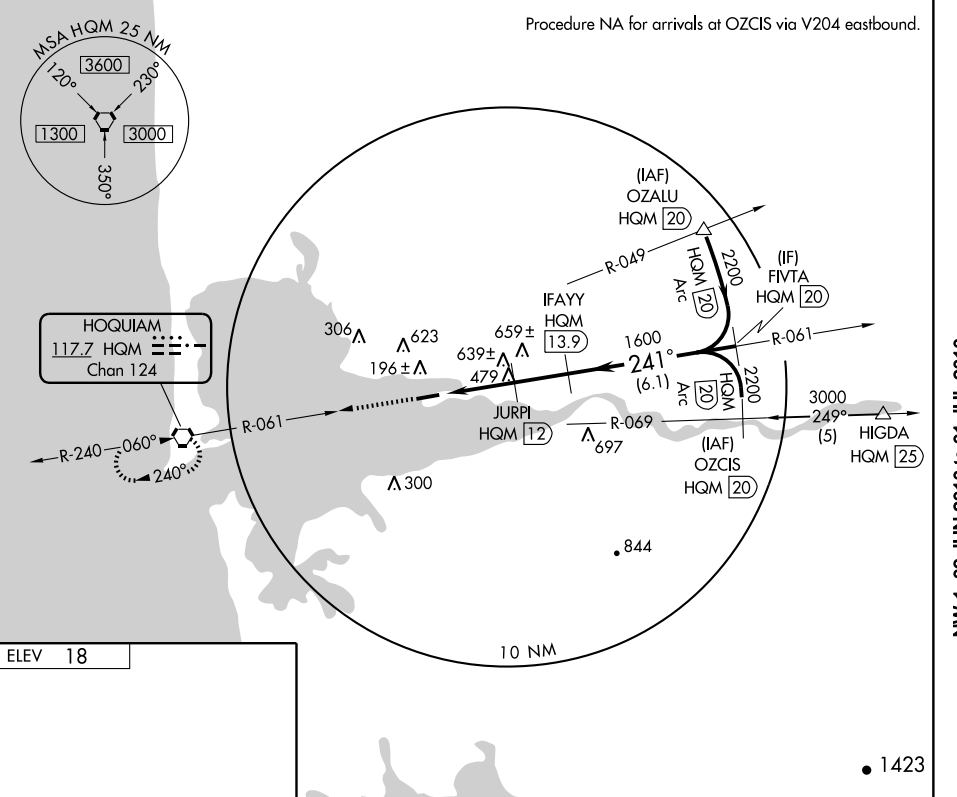
⚠

Circling NA northwest of Rwy 6 and 24.
Visibility reduction by helicopters NA.

MALSR

MISSED APPROACH: Climb to 2500 via HQM VORTAC
R-061 to HQM VORTAC and hold.

ASOS 135.775	SEATTLE CENTER 128.3 269.0	UNICOM 122.7 (CTAF)
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	2500	HQM		FIVTA
	HQM R-061	117.7		HQM [20]
		JURPI	IFAYY	
		HQM [12]	HQM [13.9]	
			3.10° TCH 52	
			1600	
			241°	
				2200
				Procedure Turn NA
CATEGORY	A	B	C	D
S-24	900-3/4 884 (900-3/4)		900-2 1/4 884 (900-2 1/4)	900-2 1/2 884 (900-2 1/2)
CIRCLING	900-1 1/4 882 (900-1 1/4)		900-2 3/4 882 (900-2 3/4)	900-3 882 (900-3)

REIL Rwy 6
HIRL Rwy 6-24

VORTAC HQM

117.7

Chan 124

APP CRS

062°

Rwy Idg

5000

TDZE

18

Apt Elev

18

Visibility reduction by helicopters NA.
Circling NA northwest of Rwy 6 and 24.

MISSED APPROACH: Climbing right turn to 2500 direct HQM
VORTAC and hold.

ASOS

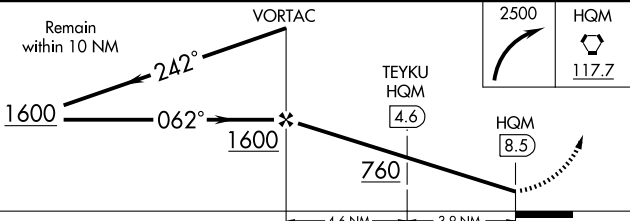
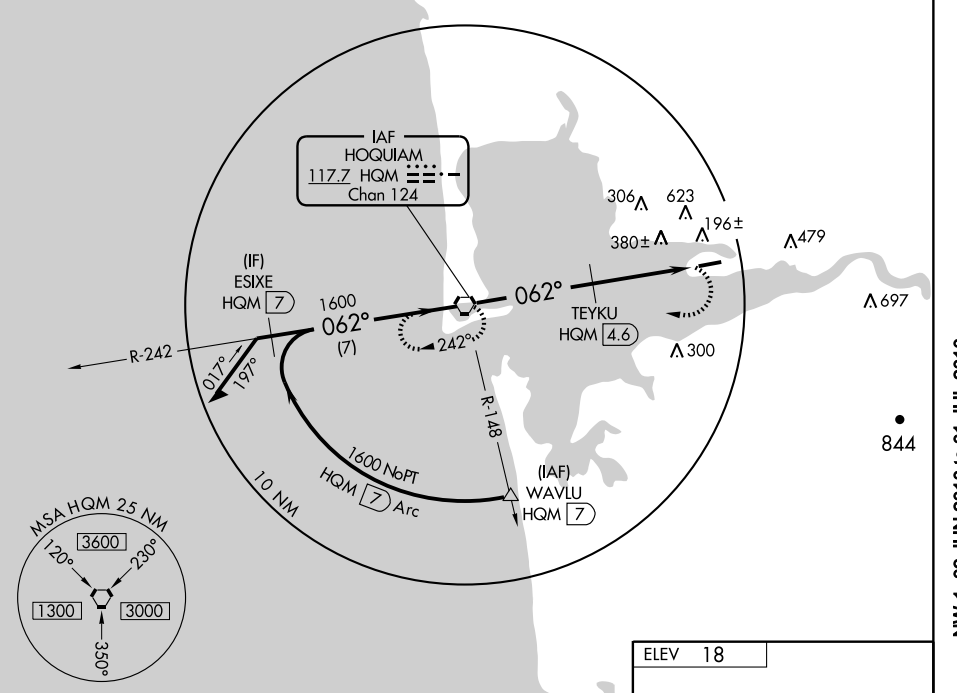
135.775

SEATTLE CENTER

128.3 269.0

UNICOM

122.7 (CTAF)



CATEGORY	A	B	C	D
S-6	760-1 742 (800-1)	760-1¼ 742 (800-1¼)	760-2¼ 742 (800-2¼)	760-2½ 742 (800-2½)
CIRCLING	760-1 742 (800-1)	760-1¼ 742 (800-1¼)	760-2¼ 742 (800-2¼)	760-2½ 742 (800-2½)
TEYKU FIX MINIMUMS				
S-6	640-1 622 (700-1)	640-1¾ 622 (700-1¾)	640-2 622 (700-2)	640-2
CIRCLING	640-1 622 (700-1)	640-1¾ 622 (700-1¾)	640-2 622 (700-2)	640-2

ELEV 18

HQM

117.7

TDZE 18

5000 X 150

69

24

AS

062° 8.5 NM from FAF

REIL Rwy 6

HIRL Rwy 6-24

FAF to MAP 8.5 NM

Knots	60	90	120	150	180
Min:Sec	8:30	5:40	4:15	3:24	2:50

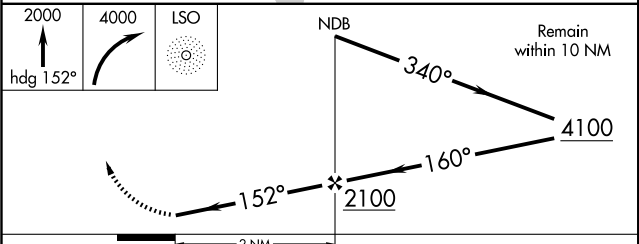
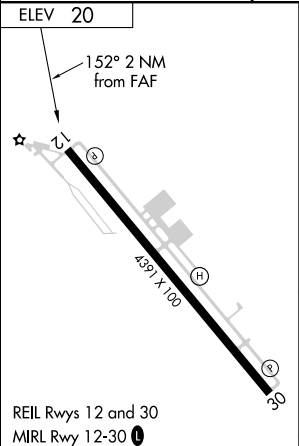
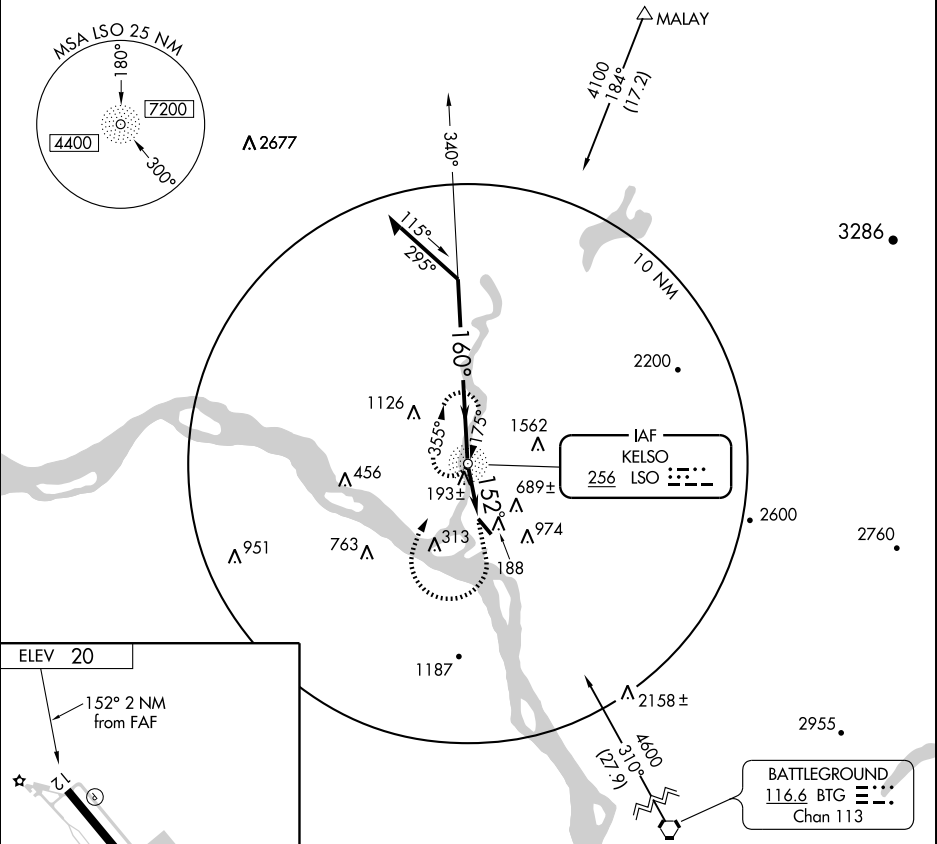
NDB	LSO	APP CRS	Rwy Idg TDZE	N/A
<u>256</u>		<u>152°</u>	Apt Elev	<u>20</u>

NDB-A

KELSO/ SOUTHWEST WASHINGTON RGNL (KLS)

<div><div>▼</div><div>NA</div></div> <div>Circling NA NE of Rwy 12-30. When local altimeter setting not received, use Scappoose altimeter setting and increase all MDA 60 feet.</div>	<div>MISSED APPROACH: Climb to 2000 via heading 152° then climbing right turn to 4000 direct LSO NDB and hold, continue climb-in-hold to 4000.</div>
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AWOS-3 135.075	SEATTLE CENTER 124.2 317.6	UNICOM 122.8 (CTAF) 0
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FAF to MAP 2 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	1300-1¼ 1280 (1300-1¼)	1300-1½ 1280 (1300-1½)	NA	
Min:Sec	2:00	1:20	1:00	0:48	0:40					

▼

▲

Circling NA northeast of Rwy 12-30. DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.
When local altimeter setting not received, use Scappoose altimeter setting and increase all MDA 60 feet and all Cat A visibility ¼ mile.

MISSED APPROACH: Climbing right turn to 4000 direct AMAVE and hold, continue climb-in-hold to 4000.

AWOS-3 135.075	SEATTLE CENTER 124.2 317.6	UNICOM 122.8 (CTAF) 0
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YAPEC		VGSI and descent angles not coincident.		4000	AMAVE
COSRA		UXALE	ANIGE	RW12	
4000		2900	2700	3.58° TCH 37	1580
Procedure Turn NA		4 NM	2 NM	3 NM	4 NM
CATEGORY	A	B	C	D	
LNAV MDA	900-1 880 (900-1)	900-1¼ 880 (900-1¼)	NA		
CIRCLING	900-1 880 (900-1)	900-1¼ 880 (900-1¼)	NA		

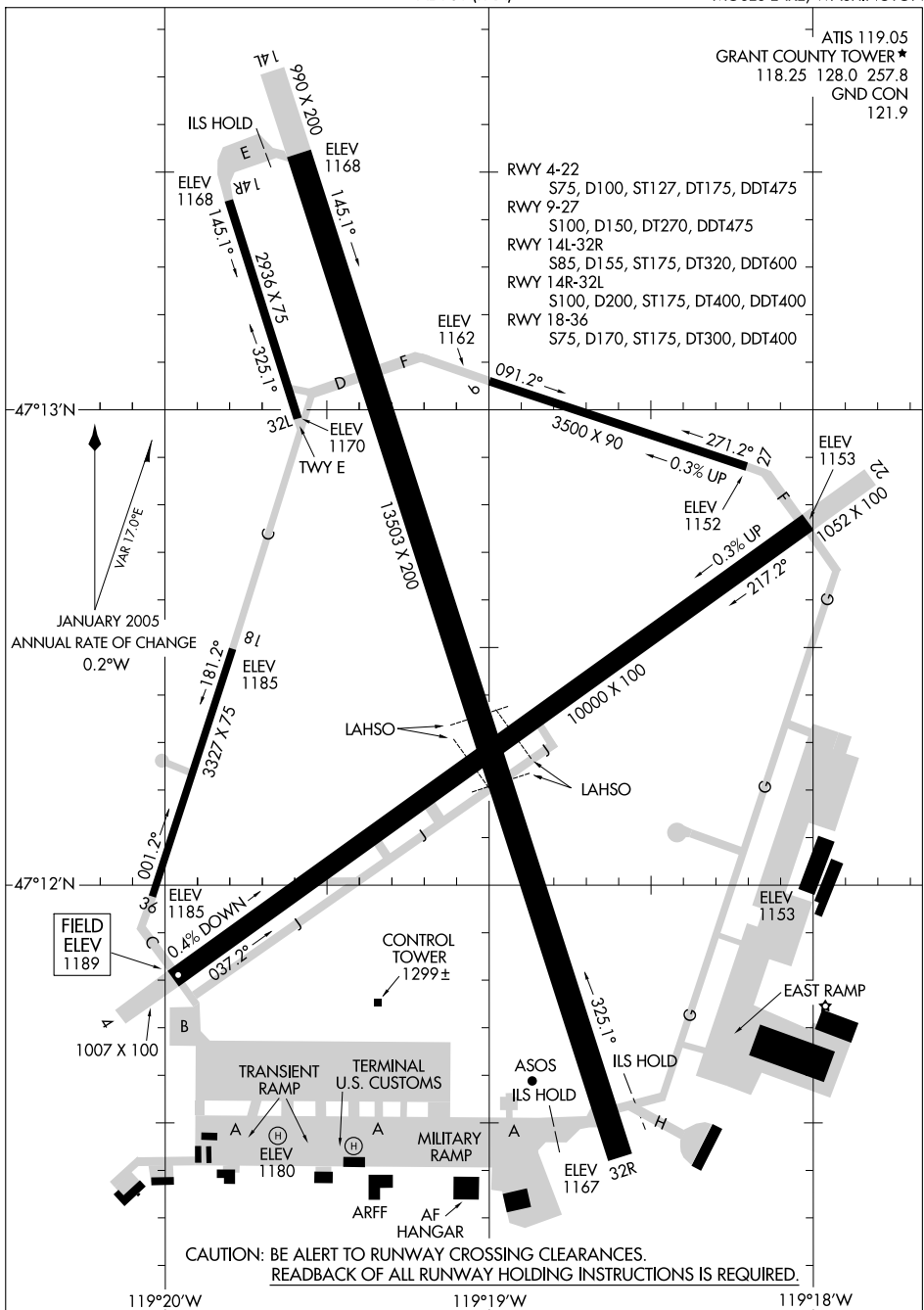
NW-1, 03 JUN 2010 to 01 JUL 2010

AIRPORT DIAGRAM

AL-961 (FAA)

MOSES LAKE/GRANT COUNTY INTL (MWH)

MOSES LAKE, WASHINGTON



NW-1, 03 JUN 2010 to 01 JUL 2010

LOC I-MWH	APP CRS	Rwy Idg	13503
109.5	324°	TDZE	1167
		Apt Elev	1189

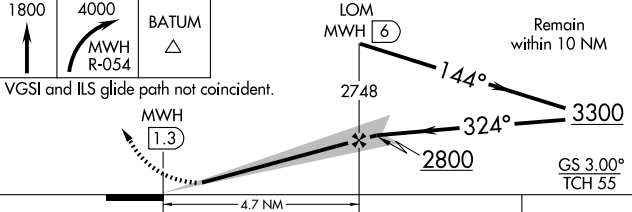
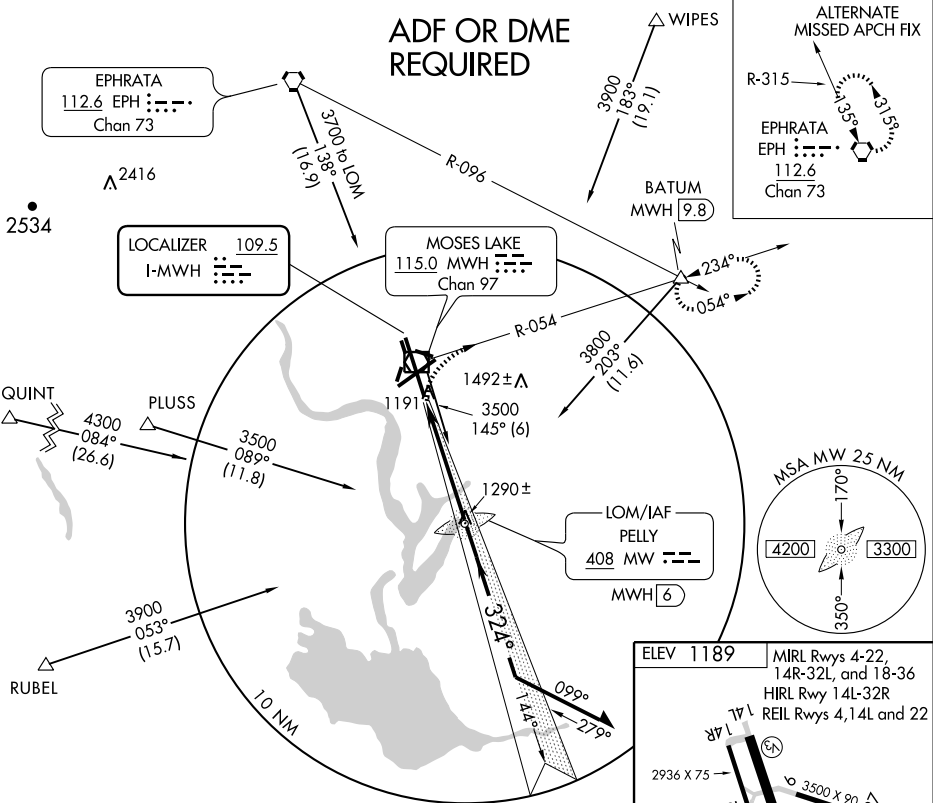
ILS or LOC RWY 32R

MOSES LAKE/ GRANT COUNTY INTL (MWH)

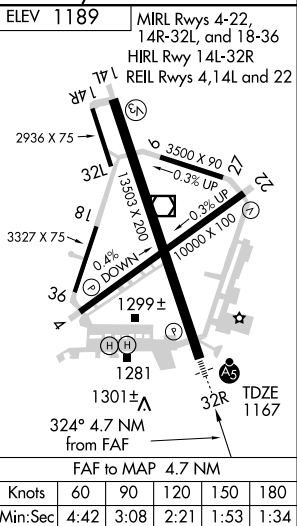
For inoperative MALS, increase S-LOC 32R Cat. D visibility to RVR 5000.
If local altimeter setting not received, use Ephrata altimeter setting and increase all DA/MDAs 40 feet.
*RVR 1800 authorized with the use of FD or AP or HUD to DA.

MALS
MISSED APPROACH: Climb to 1800, then climbing right turn to 4000 via MWH R-054 to BATUM INT/MWH 9.8 DME and hold, continue climb-in-hold to 4000.

ATIS	GRANT COUNTY APP CON *	GRANT COUNTY TOWER *	GND CON	UNICOM
119.05	126.4 379.95	118.25 (CTAF) 128.0 257.8	121.9	122.95



CATEGORY	A	B	C	D
S-ILS 32R	*1367/24 200 (200-½)			
S-LOC 32R	1440/24 273 (300-½)		1440/40 273 (300-¾)	
CIRCLING	1680-1 491 (500-1)		1680-1½ 491 (500-½)	1740-2 551 (600-2)



MOSES THREE DEPARTURE

SL-961 (FAA)

MOSES LAKE/GRANT COUNTY INTL (MWH)

MOSES LAKE, WASHINGTON

ATIS 119.05

GND CON

121.9

GRANT COUNTY TOWER ★

118.25 (CTAF) 128.0 257.8

GRANT COUNTY DEP CON ★

126.4 379.95

WENATCHEE
111.0 EAT
Chan 47
N47°23.98' - W120°12.65'

L-13



EPHRATA
112.6 EPH
Chan 73
N47°22.68' - W119°25.44'

L-13, H-1



SPOKANE
115.5 GEG
Chan 102
N47°33.90' - W117°37.61'

L-13, H-1

ELLENSBURG
117.9 ELN
Chan 126
N47°01.46' - W120°27.51'

L-13, H-1

MOSES LAKE
115.0 MWH
Chan 97
N47°12.65' - W119°19.01'

L-13, H-1

YAKIMA
116.0 YKM
Chan 107
N46°34.22' - W120°26.68'

L-13, H-1

PASCO
108.4 PSC
Chan 21
N46°15.78' - W119°06.94'

L-13

WALLA WALLA
116.4 ALW
Chan 111
N46°05.22' - W118°17.55'

L-13

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

ALL RUNWAYS: Fly runway heading, or ATC assigned heading, for vector to assigned route/fix. Maintain 5000' or ATC assigned altitude. Expect clearance to filed altitude 5 minutes after departure.

LOST COMMUNICATIONS: If no transmissions received for 1 minute after departure, maintain runway heading, or ATC assigned heading to 6000', then climbing right turn to filed altitude, direct MWH VOR/DME, then via assigned fix/route.

LOM MW	APP CRS	Rwy Idg	13503
<u>408</u>	324°	TDZE	1164
		Apt Elev	1185

NDB RWY 32R

MOSES LAKE/GRANT COUNTY INTL (MWH)



MALSR



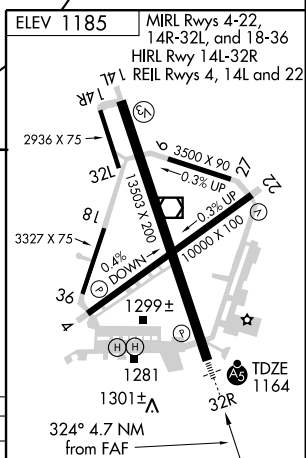
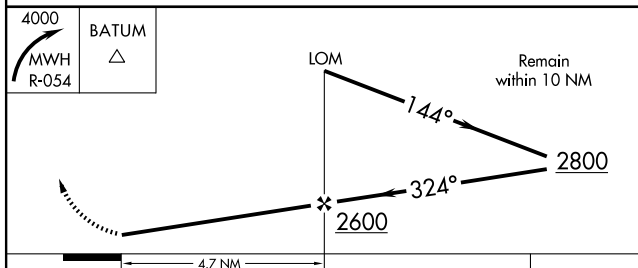
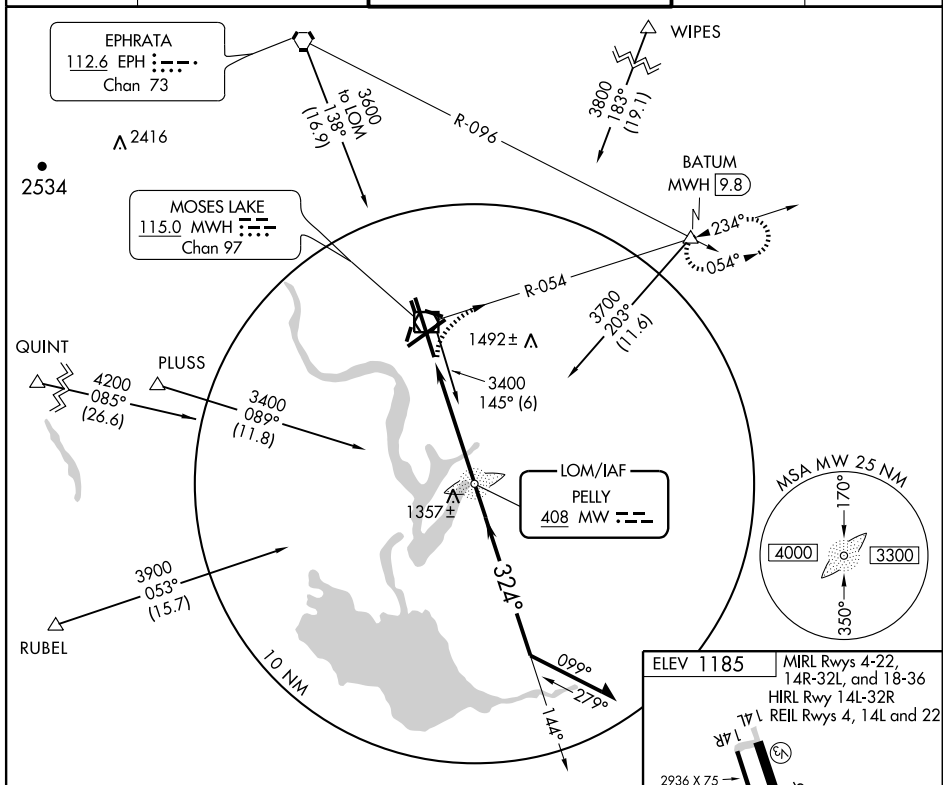
MISSED APPROACH: Climbing right turn to 4000 via MWH R-054 to BATUM Int/MWH 9.8 DME and hold.

ATIS
119.05

GRANT COUNTY APP CON ★
126.4 379.95

GRANT COUNTY TOWER ★
118.25 (CTAF) L 128.0 257.8

GND CON
121.9

UNICOM
122.95

CATEGORY	A	B	C	D
S-32R	1680/40	516 (500-¾)	1680/50 516 (500-1)	1680-1½ 516 (500-1½)
CIRCLING	1680-1	495 (500-1)	1680-1½ 495 (500-1½)	1740-2 555 (600-2)

FAF to MAP 4.7 NM					
Knots	60	90	120	150	180
Min:Sec	4:42	3:08	2:21	1:53	1:34

WAAS CH 42809 W04A	APP CRS 036°	Rwy Idg TDZE 10000 1189 Apt Elev 1189
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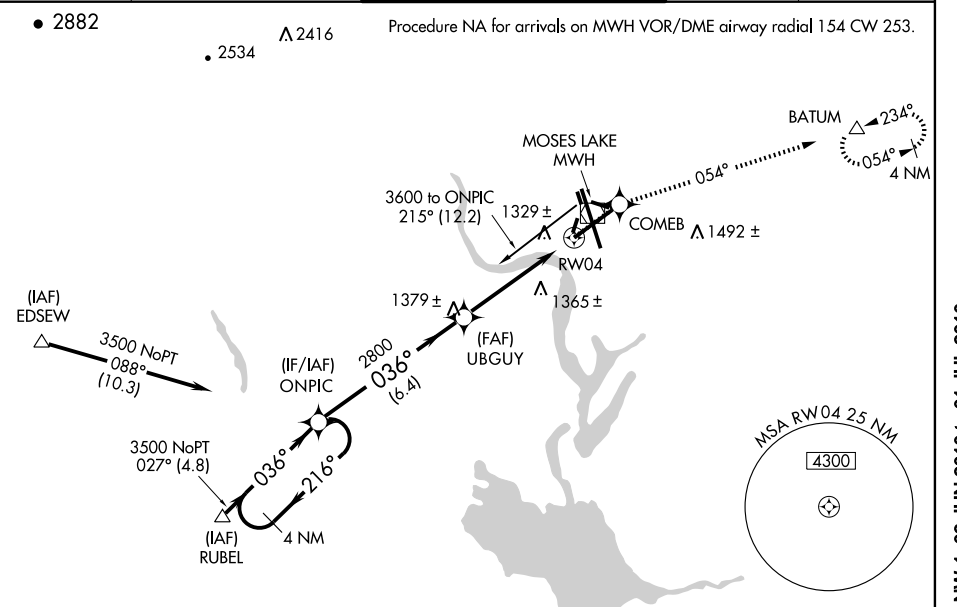
▼

▲

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. When local altimeter setting not received, use Ephrata altimeter setting and increase all DA/MDA 40 feet and increase LPV all Cats and LNAV/VNAV all Cats visibility ¼ mile. Baro-VNAV and VDP NA when using Ephrata altimeter setting.

MISSED APPROACH: Climb to 4000 direct COMEB and via 054° track to BATUM and hold, continue climb-in-hold 4000.

ATIS 119.05	GRANT COUNTY APP CON * 126.4 379.95	GRANT COUNTY TOWER * 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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ELEV 1189				
REIL Rwy 4, 14L and 22 HIRL Rwy 14L-32R MRL Rwy 4-22, 14R-32L, and 18-36				

4000 COMEB 054° track BATUM				
* LNAV only				
4NM Holding Pattern ONPIC				
3500 ← 216° 036° →				
GS 3.00° TCH 50				
2800				
6.4 NM 3.6 NM 1.2 NM				
CATEGORY	A	B	C	D
LPV DA	1439-3/4		250 (300-3/4)	
LNAV/VNAV DA	1636-1 1/2		447 (500-1 1/2)	
LNAV MDA	1620-1	431 (500-1)	1620-1 1/4	1620-1 1/2
			431 (500-1 1/4)	431 (500-1 1/2)
CIRCLING	1660-1	471 (500-1)	1660-1 1/2	1740-2
			471 (500-1 1/2)	551 (600-2)

NW-1, 03 JUN 2010 to 01 JUL 2010

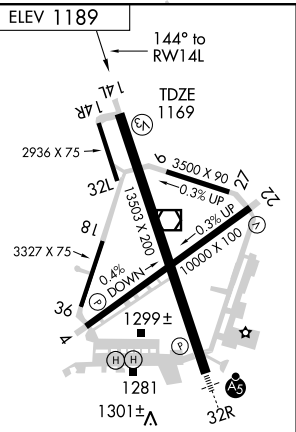
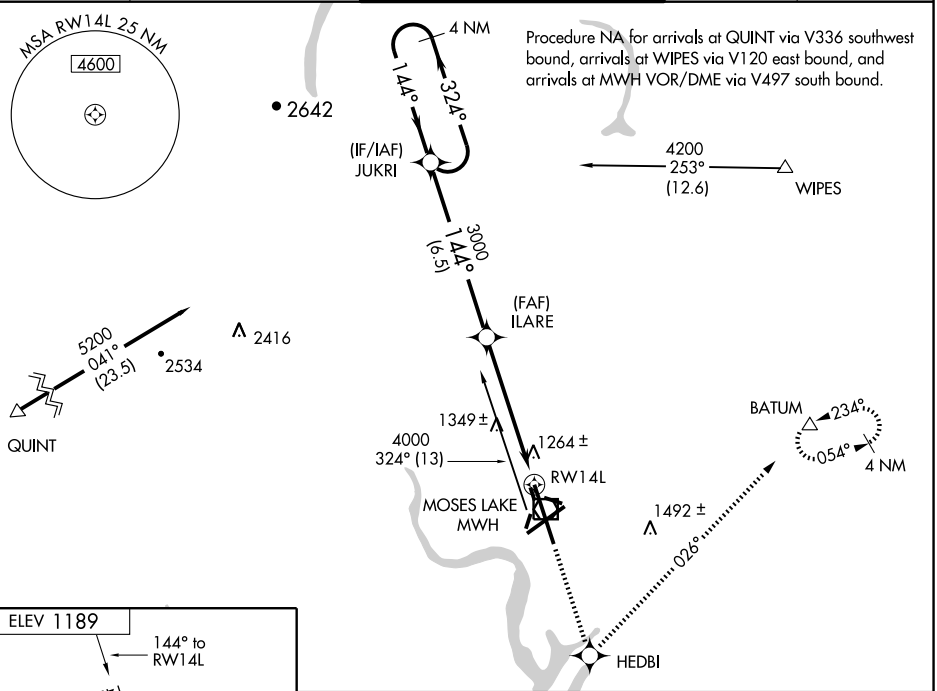
WAAS CH 90509 W14A	APP CRS 144°	Rwy Idg TDZE Apt Elev 1189
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RNAV (GPS) RWY 14L
MOSES LAKE/ GRANT COUNTY INTL (MWH)

▼
▲
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. Baro-VNAV and VDP NA when using Ephrata altimeter setting. When local altimeter setting not received, use Ephrata altimeter setting and increase all DA/MDA 40 feet and increase LPV all CATs and LNAV/VNAV all CATs visibility ½ mile.

MISSED APPROACH: Climb to 4000
direct HEDBI and via 026° track to
BATUM and hold, continue climb-in-hold
4000.

ATIS 119.05	GRANT COUNTY APP CON * 126.4 379.95	GRANT COUNTY TOWER * 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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REIL Rwy 4, 14L and 22
HIRL Rwy 14L-32R
MIRL Rwy 4-22, 14R-32L, and 18-36

4NM Holding Pattern		JUKRI	* LNAV only		4000	HEDBI	BATUM
4000		324°	144°	144°	3000	026° track	
GS 3.00° TCH 52		6.5 NM	4.3 NM	1.2 NM			
CATEGORY	A	B	C	D			
LPV DA		1419-¾	250 (300-¾)				
LNAV/VNAV DA		1622-1½	453 (500-1½)				
LNAV MDA	1600-1	431 (500-1)	1600-1¼ 431 (500-1¼)	1600-1½ 431 (500-1½)			
CIRCLING	1660-1	471 (500-1)	1660-1½ 471 (500-1½)	1740-2 551 (600-2)			

WAAS CH 70410 W22A	APP CRS 216°	Rwy Idg TDZE Apt Elev	10000 1166 1189
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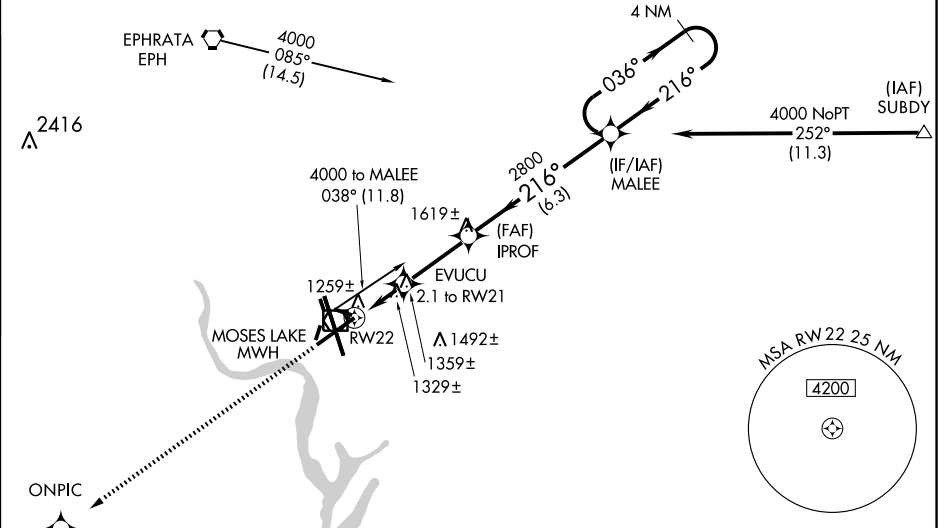
RNAV (GPS) RWY 22
MOSES LAKE/ GRANT COUNTY INTL (MWH)

▽ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F). DME/DME RNP-0.3 NA. Baro-VNAV and VDP NA when using Ephrata altimeter setting. When local altimeter setting not received, use Ephrata altimeter setting and increase all DA/MDA 40 feet and increase LNAV/VNAV all Cats and LNAV Cat D visibility 1/4 mile.

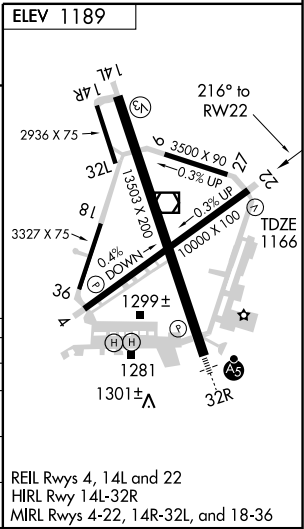
MISSSED APPROACH: Climb to 3500 direct ONPIC and hold.

ATIS 119.05	GRANT COUNTY APP CON * 126.4 379.95	GRANT COUNTY TOWER * 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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Procedure NA for arrivals at EPH VORTAC via V120 westbound.



ELEV 1189				
CATEGORY	A	B	C	D
LPV DA	1416-1		250 (300-1)	
LNAV/VNAV DA	1529-1½		363 (400-1¼)	
LNAV MDA	1580-1	414 (500-1)	1580-1¼	414 (500-1¼)
CIRCLING	1660-1	471 (500-1)	1660-1½ 471 (500-1½)	1740-2 551 (600-2)



WAAS CH 77799 W32A	APP CRS 324°	Rwy Idg 13503 TDZE 1164 Apt Elev 1185
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RNAV (GPS) RWY 32R

MOSES LAKE/GRANT COUNTY INTL (MWH)

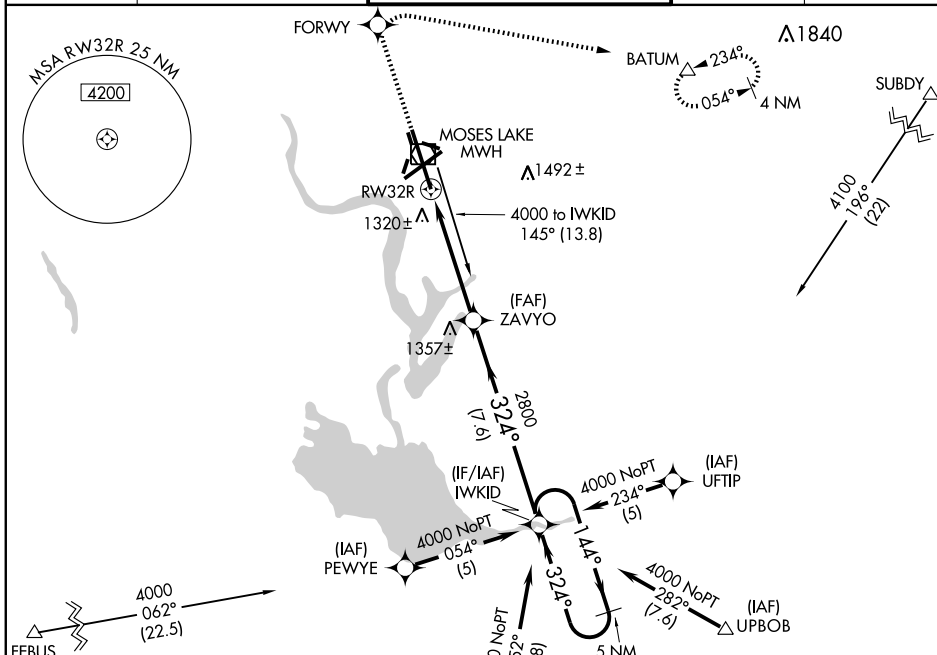
T DME/DME RNP-0.3 NA. Baro-VNAV NA below -17°C (1°F).
For inoperative MALSR increase LPV all Cats visibility to RVR 4000,
and LNAV Cat D visibility to 1½.

MALSR

A5

MISSED APPROACH: Climb to 4000 direct FORWY and right turn via 080° track to BATUM and hold, continue climb-in-hold to 4000.

ATIS 119.05	GRANT COUNTY APP CON ★ 126.4 379.95	GRANT COUNTY TOWER ★ 118.25 (CTAF) 0 128.0 257.8	GND CON 121.9	UNICOM 122.95
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4000
↑
FORWY
080°
BATUM
△

5 NM Holding Pattern

IWKID

VGSI and RNAV glidepath not coincident

ZAVYO

144° → 4000
← 324°

324°

2800

GS 3.00
TCH 56

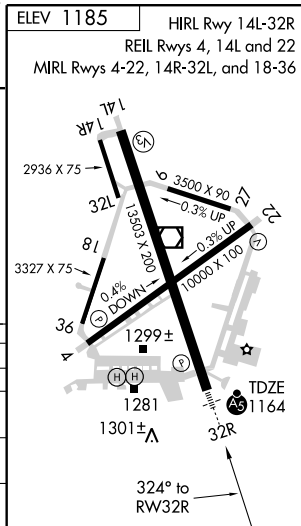
* 1.2 NM to RW32R

RW32R

* LNAV only

1.2 NM 3.7 NM 7.6 NM

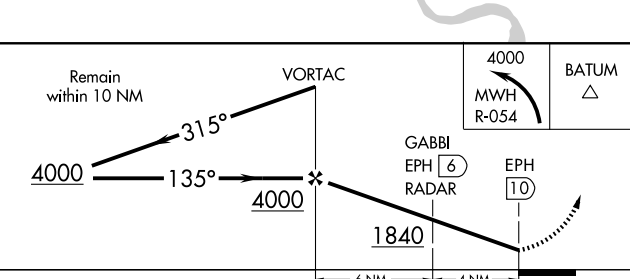
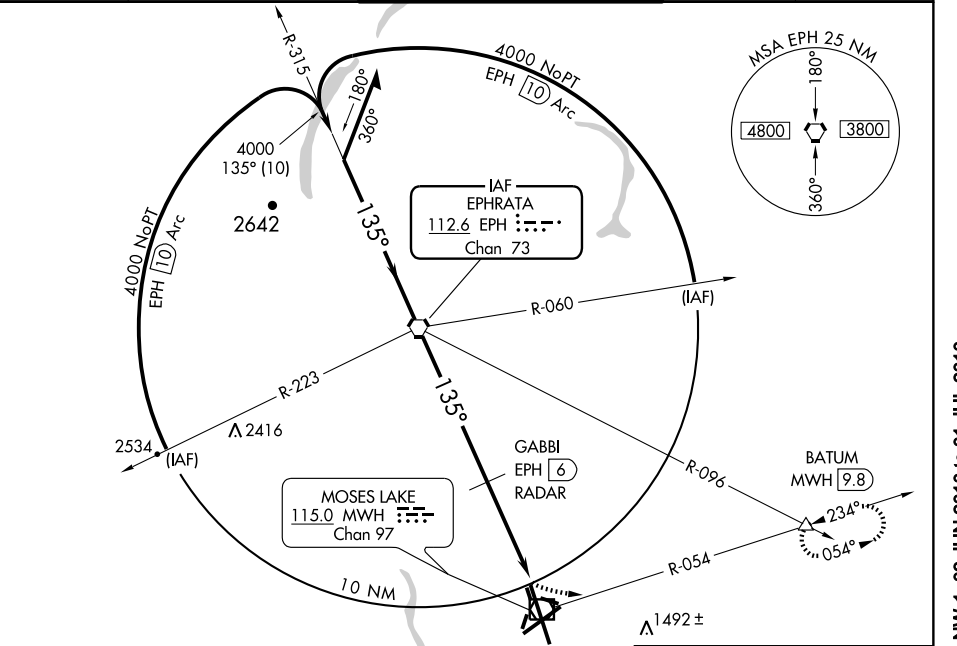
CATEGORY		A	B	C	D
LPV	DA	1414/24		250 (300-½)	
LNAV/ VNAV	DA	1667/60		503 (500-1¼)	
LNAV	MDA	1620/24 456 (500-½)		1620/40 456 (500-¾)	1620/50 456 (500-1)
CIRCLING		1680-1¾ 495 (500-1¾)			1740-2 555 (600-2)



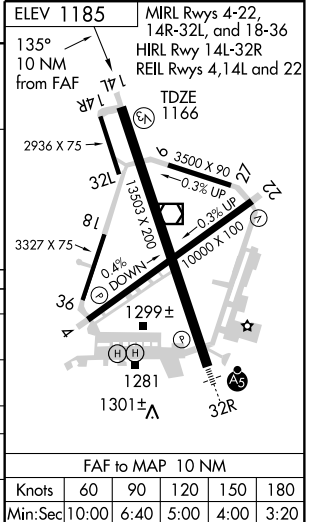
VORTAC EPH	APP CRS	Rwy Idg	13503
112.6	135°	TDZE	1166
Chan 73		Apt Elev	1185

MISSED APPROACH: Climbing left turn to 4000 via MWH R-054 to BATUM Int/MWH 9.8 DME and hold.

ATIS	GRANT COUNTY APP CON *	GRANT COUNTY TOWER *	GND CON	UNICOM
119.05	126.4 379.95	118.25 (CTAF) 128.0 257.8	121.9	122.95



CATEGORY	A	B	C	D
S-14L	1840-1 674 (700-1)		1840-2 674 (700-2)	1840-2 1/4 674 (700-2 1/4)
CIRCLING	1840-1 655 (700-1)		1840-1 3/4 655 (700-1 3/4)	1840-2 655 (700-2)
GABBI DME or RADAR MINIMUMS				
S-14L	1640-1 474 (500-1)		1640-1 1/4 474 (500-1 1/4)	1640-1 1/2 474 (500-1 1/2)
CIRCLING	1680-1 495 (500-1)		1680-1 1/2 495 (500-1 1/2)	1740-2 555 (600-2)

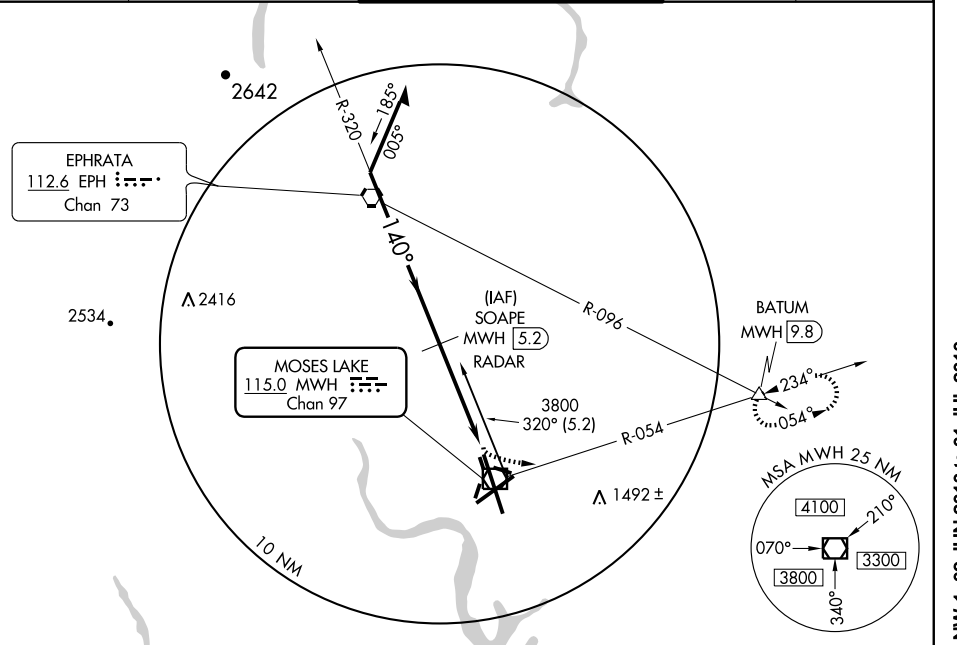


NW-1, 03 JUN 2010 to 01 JUL 2010

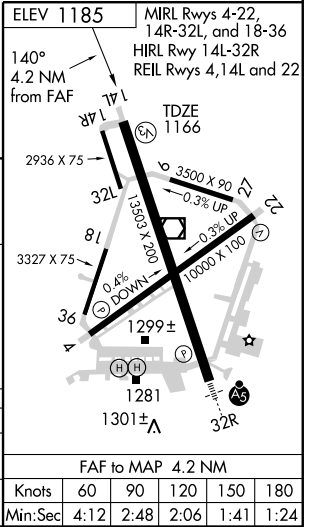
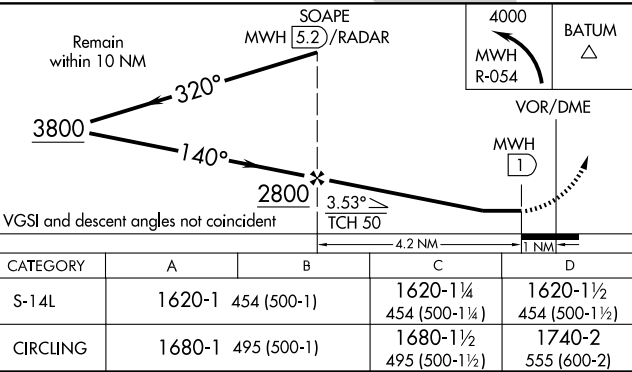
VOR/DME MWH	APP CRS	Rwy Idg	13503
115.0	140°	TDZE	1166
Chan 97		Apt Elev	1185

MISSED APPROACH: Climbing left turn to 4000 via MWH R-054 to BATUM Int/MWH 9.8 DME and hold.

ATIS	GRANT COUNTY APP CON *	GRANT COUNTY TOWER *	GND CON	UNICOM
119.05	126.4 379.95	118.25 (CTAF) 128.0 257.8	121.9	122.95



RADAR or DME REQUIRED

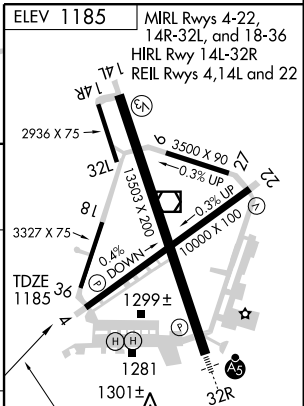
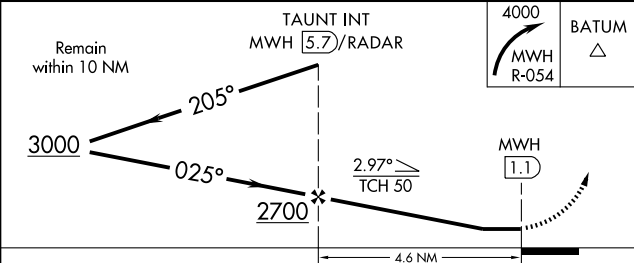
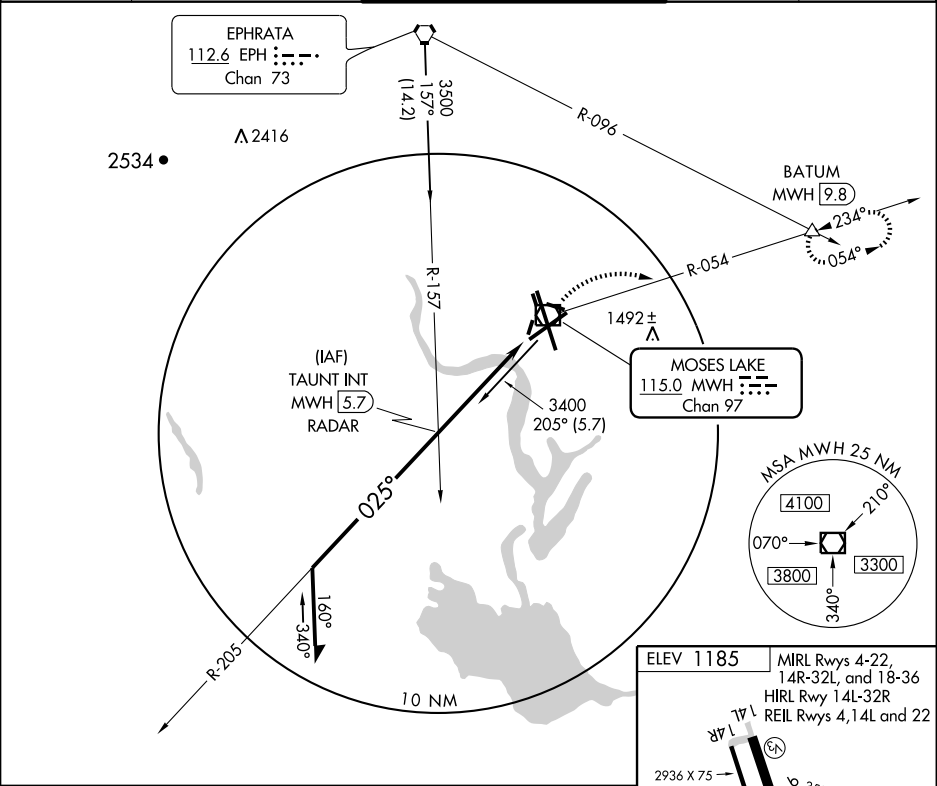


NW-1. 03 JUN 2010 to 01 JUL 2010

VOR/DME MWH	APP CRS	Rwy Idg	10000
115.0	025°	TDZE	1185
Chan 97		Apt Elev	1185

MISSED APPROACH: Climbing right turn to 4000 via MWH R-054 to BATUM Int/MWH 9.8 DME and hold.

ATIS 119.05	GRANT COUNTY APP CON * 126.4 379.95	GRANT COUNTY TOWER * 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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CATEGORY	A	B	C	D
S-4	1620-1	435 (500-1)	1620-1½ 435 (500-1½)	1620-1½ 435 (500-1½)
CIRCLING	1680-1	495 (500-1)	1680-1½ 495 (500-1½)	1740-2 555 (600-2)

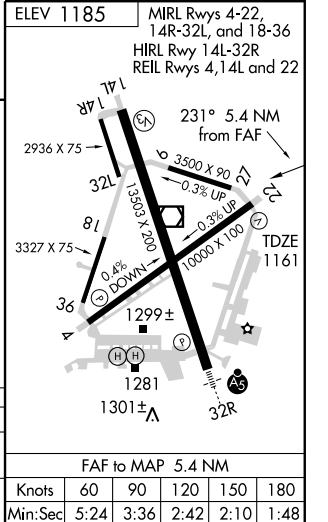
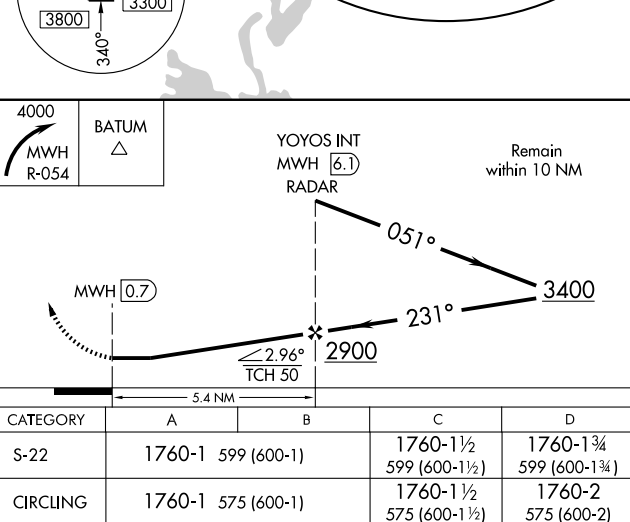
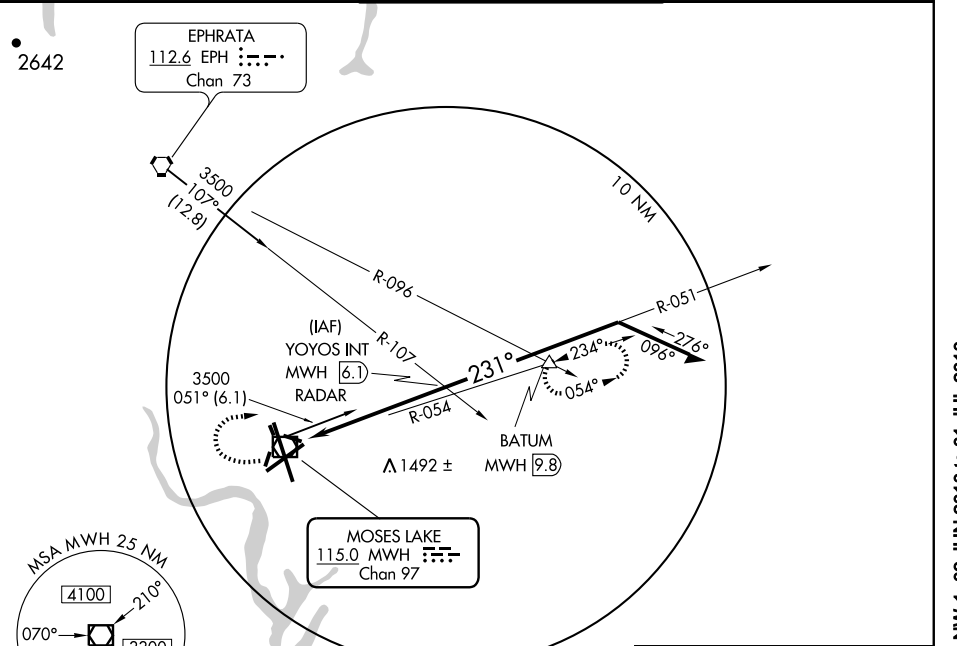
FAF to MAP 4.6 NM					
Knots	60	90	120	150	180
Min:Sec	4:36	3:04	2:18	1:50	1:32

VOR/DME MWH	APP CRS	Rwy Idg	10000
115.0	231°	TDZE	1161
Chan 97		Apt Elev	1185

▼
▲

MISSED APPROACH: Climbing right turn to 4000 via MWH R-054 to BATUM Int/MWH 9.8 DME and hold.

ATIS 119.05	GRANT COUNTY APP CON ★ 126.4 379.95	GRANT COUNTY TOWER ★ 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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NW-1. 03 JUN 2010 to 01 JUL 2010

VOR/DME MWH
115.0
Chan 97

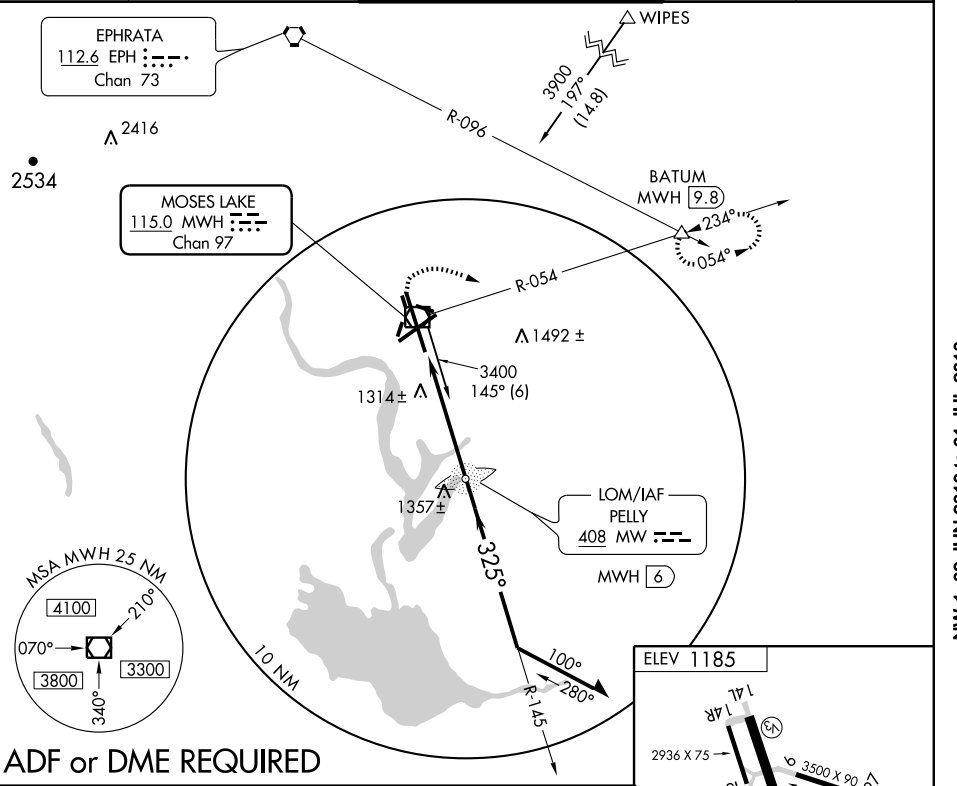
APP CRS
325°

Rwy Idg
TDZE
Apt Elev

13503
1164
1185

MISSED APPROACH: Climbing right turn to 4000
via MWH R-054 to BATUM Int/MWH 9.8 DME and
hold.

ATIS 119.05	GRANT COUNTY APP CON * 126.4 379.95	GRANT COUNTY TOWER * 118.25 (CTAF) 128.0 257.8	GND CON 121.9	UNICOM 122.95
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4000
MWH
R-054

BATUM
△

PELLY LOM
MWH 6

Remain within 10 NM

VOR/DME

2600

2800

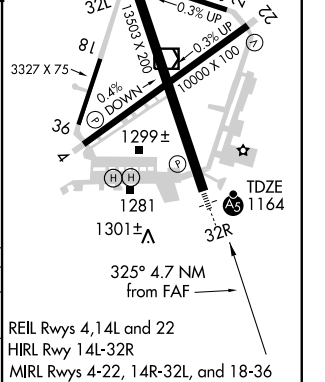
145°

325°

1.3

4.7 NM

CATEGORY	A	B	C	D
S-32R	1620/24	456 (500-½)	1620/40 456 (500-¾)	1620/50 456 (500-1)
CIRCLING	1680-1	495 (500-1)	1680-1½ 495 (500-1½)	1740-2 555 (600-2)



NW-1. 03 JUN 2010 to 01 JUL 2010

AIRPORT DIAGRAM

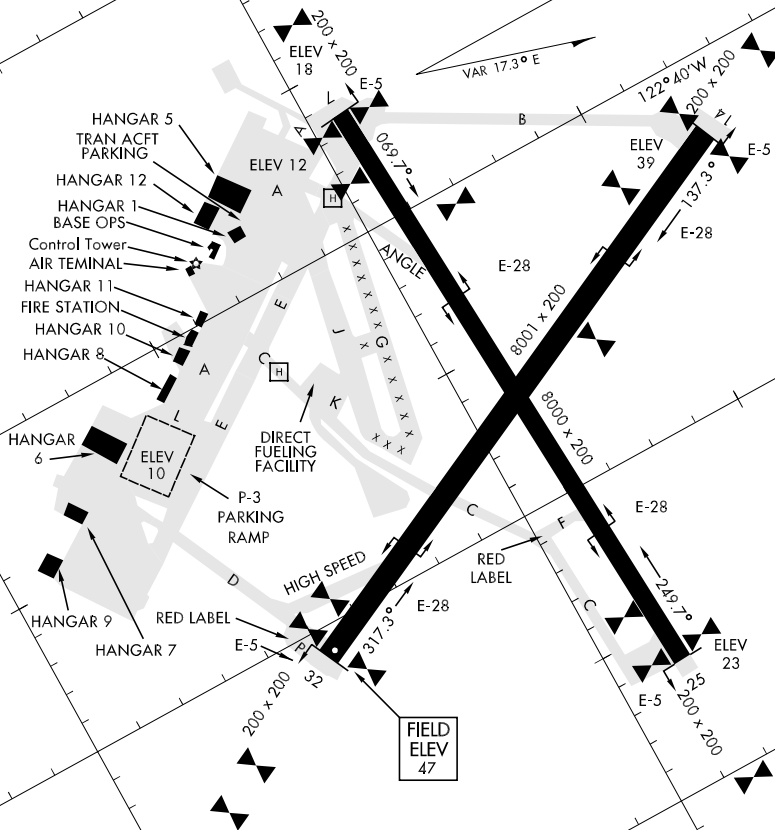
AFD-451 [USN]

OAK HARBOR, WASHINGTON

ATIS 134.15 281.5
WHIDBEY TOWER
127.9 340.2
GND CON
121.75 336.4
CINC DEL
135.1 379.9

FEBRUARY 2010
ANNUAL RATE OF CHANGE
0.2° W

NW-1, 03 JUN 2010 to 01 JUL 2010



RWY 7-25
PCN 45 R/B/W/T
RWY 14-32
PCN 73 R/B/W/T

AIRPORT DIAGRAM

OAK HARBOR, WASHINGTON

TACAN NUW Chan 85	APCH CRS 058°	Rwy Idg TDZE Arpt Elev 8000 25 47
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JAL-451 [USN]

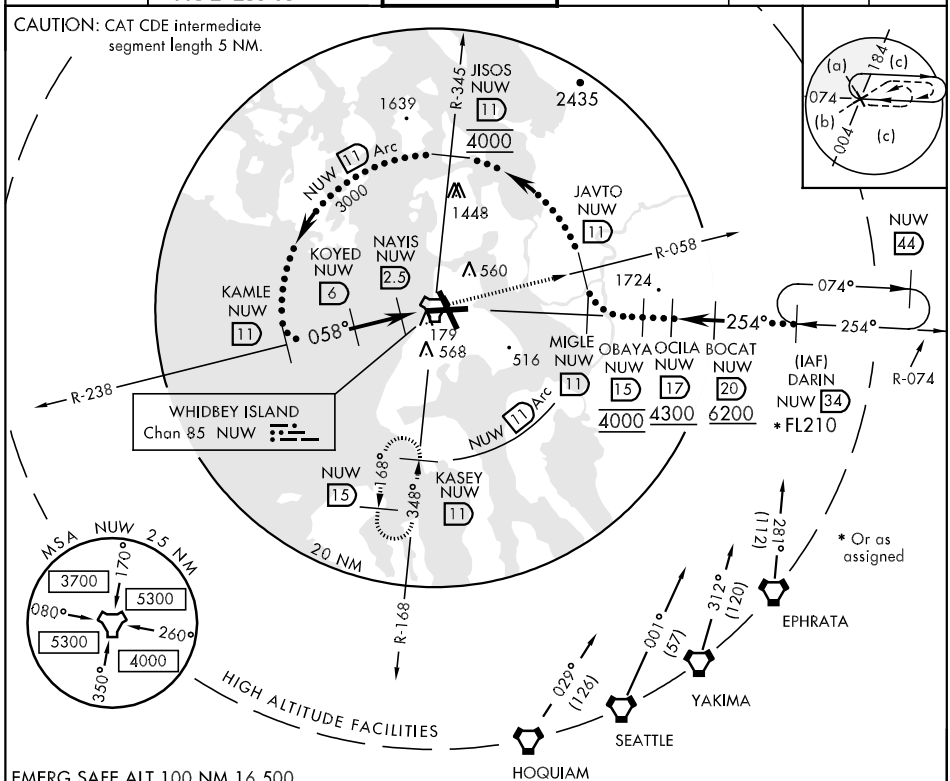
WHIDBEY ISLAND NAS (AULT FLD) (KNUW)



MISSED APPROACH: Climb to 3000 via NUW R-058 to JAVTO, then arc SE of NUW TACAN via 11 DME Arc to KASEY and hold.

ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 118.2 285.65 EAST WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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CAUTION: CAT CDE intermediate segment length 5 NM.



EMERG SAFE ALT 100 NM 16,500

<p>KAMLE R-238</p> <p>3000</p> <p>058°</p> <p>1500</p> <p>2.44° TCH 55</p>			<p>3000 NUW R-058</p> <p>JAVTO NUW (11)</p> <p>NUW (11) Arc</p>			<p>ELEV 47</p> <p>TDZE 25</p> <p>058° to TACAN</p> <p>TWR 167</p>		
<p>3.5 NM</p> <p>1.2 NM</p>			<p>3000</p> <p>1500</p> <p>580</p> <p>1.3</p> <p>1.6</p> <p>2.5</p> <p>3.5 NM</p> <p>1.2 NM</p>			<p>3000</p> <p>1500</p> <p>580</p> <p>1.3</p> <p>1.6</p> <p>2.5</p> <p>3.5 NM</p> <p>1.2 NM</p>		
CATEGORY	C		D		E			
S-7	440-1¼		415 (400-1¼)		440-1½			
CIRCLING	800-2¼		860-2¾		1100-3			
	753 (800-2¼)		813 (900-2¾)		1053 (1100-3)			

ATIS	WHIDBEY APP CON	WHIDBEY TOWER	GND CON	CLNC DEL	ASR/PAR
134.15 281.5	120.7 270.8 EAST 118.2 285.65 WEST	127.9 340.2	121.75 336.4	135.1 379.9	

Figure 1 is a map of the Pacific Northwest region, showing the proposed flight path for the Boeing 787-9. The map includes major airports (Seattle, Yakima, Ephrata, Hoquiam), navigation aids (NUW, MSA, WETLI, JISOS, LUPEZ, ELLEK, FAXUT, MIGLE, OBAYA, OCILA, BOCAT, CANUN), and various altitudes and distances. A callout shows a detailed view of the Whidbey Island area with a 2.5 NM scale. Another callout shows a detailed view of the Ephrata area with a 100 NM scale. The flight path is marked with a dashed line and includes a 20 NM segment near Whidbey Island.

WETLI R-321
ELLEK
FAXUT
JOVPO
TACAN

4000
NUW R-131
CANUN NUW
NUW Arc

ELEV 47
141° to TACAN
TDZE 39
8000 x 200
25
32
TWR 167

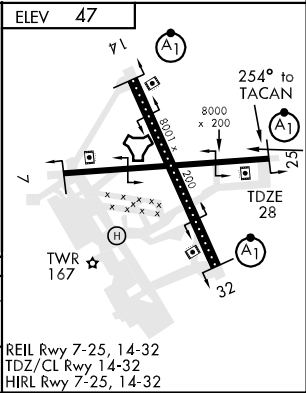
CATEGORY	C	D	E
S-14 *	620-1 581 (600-1)	620-1¼ 581 (600-1¼)	620-1½ 581 (600-1½)
CIRCLING	800-2½ 753 (800-2½)	860-2¾ 813 (900-2¾)	1100-3 1053 (1100-3)

REIL Rwy 7-25, 14-32
 TDZ/CL Rwy 14-32
 HIRL Rwy 7-25, 14-32

CAUTION: intmed seg length 5 NM.



3000 ↑ NUW R-254	NEDOE NUW 11	NUW 11 Arc
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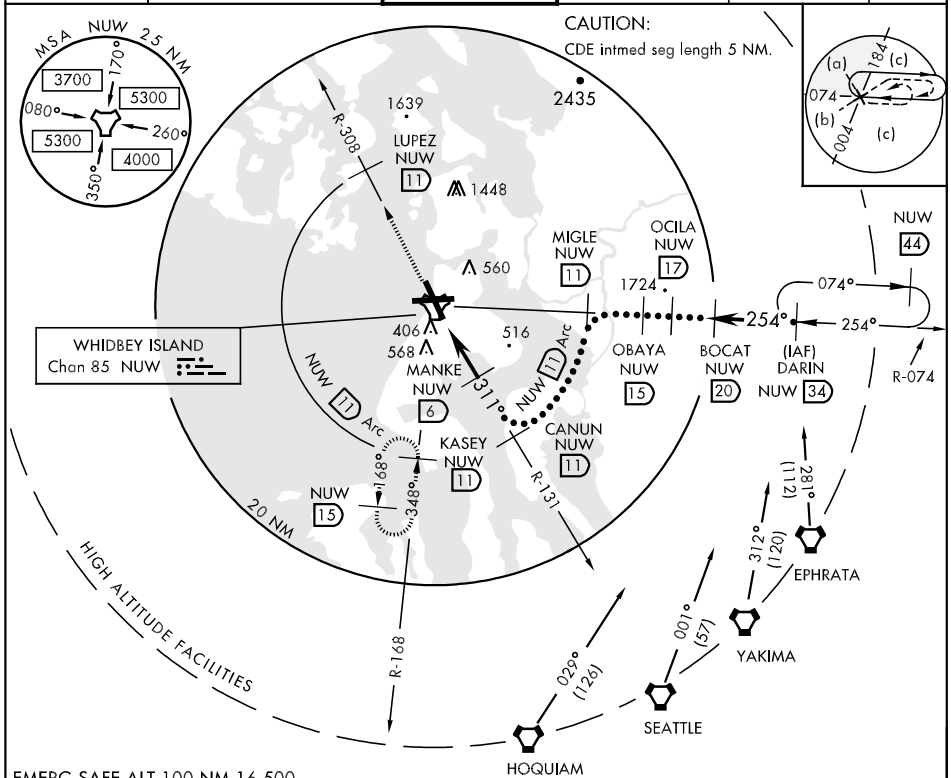


CATEGORY	C	D	E
S-25 *	760-1½ 732 (800-1½)	760-1¾ 732 (800-1¾)	760-2 732 (800-2)
CIRCLING	800-2¼ 753 (800-2¼)	860-2¾ 813 (900-2¾)	1100-3 1053 (1100-3)

TACAN NUW Chan 85	APCH CRS 311°	Rwy Idg 8001 TDZE 47 Arpt Elev 47	JAL-451 [USN]	WHIDBEY ISLAND NAS (AULT FLD) (KNUW)
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<p>▼ * When ALS inop, increase CAT C vis to 1¾ miles, CAT D to 2 miles, CAT E to 2¼ miles.</p>	<p>ALSF-1 A1</p>	<p>MISSED APPROACH: Climb to 3000 via R-308 to LUPEZ, then arc W of NUW TACAN via 11 DME Arc to KASEY and hold.</p>
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ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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EMERG SAFE ALT 100 NM 18,500

3000
↑
NUW R-308

LUPEZ NUW 11

NUW 11 Arc

DARIN R-074 NUW 34

ELEV 47

TACAN

NAVOE 1.8

MANKE 6

CANUN R-131 11

MIGLE R-074 11

OBAYA 15

OCILA 17

BOCAT 20

3000

4000

4000

4300

6200

311°

25°

4.2 NM

1500

Arc 11

† Or as assigned

2.61° TCH 55

CATEGORY	C	D	E
S-32*	660-1¼ 613 (700-1¼)	660-1½ 613 (700-1½)	660-1¾ 613 (700-1¾)
CIRCLING	800-2¼ 753 (800-2¼)	860-2¾ 813 (900-2¾)	1100-3 1053 (1100-3)

311° to TACAN

32°

25°

8000 x 200

TWR 167

311°

311° to TACAN

REIL Rwy 7-25, 14-32
TDZ/CL Rwy 14-32
HIRL Rwy 7-25, 14-32

LOC I-NUW 110.1	APCH CRS 137°	Rwy ldg TDZE Arpt Elev 8001 39 47
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AL-451 [USN]

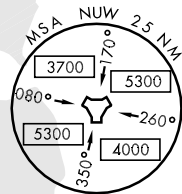
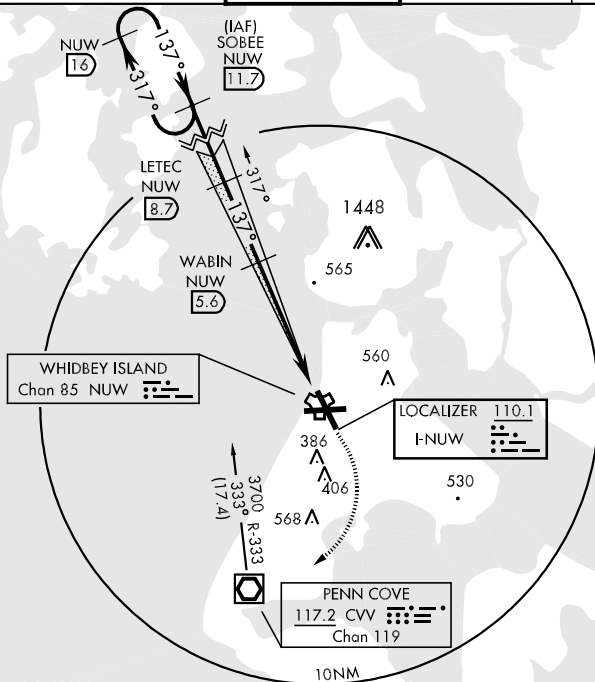
WHIDBEY ISLAND NAS (AULT FLD) (KNUW)

- * When ALS inop, increase vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase vis to 1 mile.



MISSED APPROACH: Climb to 800 via hdg 137°, then climbing right turn to 3700, direct CVV VOR/DME, then via CVV R-333 to SOBEE and hold.

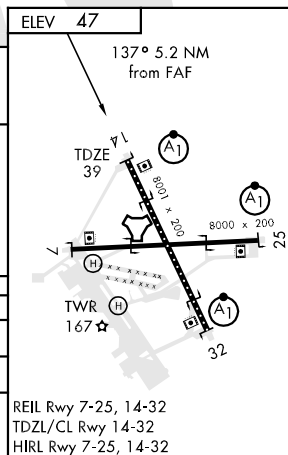
ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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DME REQUIRED

EMERG SAFE ALT 100 NM 16,500

	ELEV 47				
	137° 5.2 NM from FAF				
	<div> <div>800</div> <div>3700</div> <div>CVV</div> </div> <div> <div>↑</div> <div>hdg 137°</div> <div>↷</div> </div> <div> <div>8001 x 200</div> <div>8000 x 200</div> <div>25</div> </div>				
	<div> <div>SOBEE 11.7</div> <div>LETEC 8.7</div> <div>WABIN 5.6</div> </div> <div> <div>3700</div> <div>317°</div> <div>137°</div> <div>2700</div> <div>1780</div> <div>1800</div> </div> <div> <div>MEVRE 0.9</div> <div>TACAN</div> </div> <div> <div>4.7 NM</div> <div>0.5 NM</div> </div>				
	<div> <div>GS 3.00°</div> <div>TCH 53</div> </div>				
CATEGORY	A	B	C	D	E
S-ILS 14 *	239- $\frac{1}{2}$ 200 (200- $\frac{1}{2}$)				
S-LOC 14 **	300- $\frac{1}{2}$ 261 (300- $\frac{1}{2}$)		300- $\frac{3}{4}$ 261 (300- $\frac{3}{4}$)		
CIRCLING	780-1 733 (800-1)	800-1 $\frac{1}{4}$ 753 (800-1 $\frac{1}{4}$)	800-2 $\frac{1}{4}$ 753 (800-2 $\frac{1}{4}$)	860-2 $\frac{3}{4}$ 813 (900-2 $\frac{3}{4}$)	1100-3 1053 (1100-3)



LOC I-NUW 110.1	APCH CRS 137°	Rwy ldg TDZE Arpt Elev 8001 39 47
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AL-451 [USN]

WHIDBEY ISLAND NAS (AULT FLD) (KNUW)

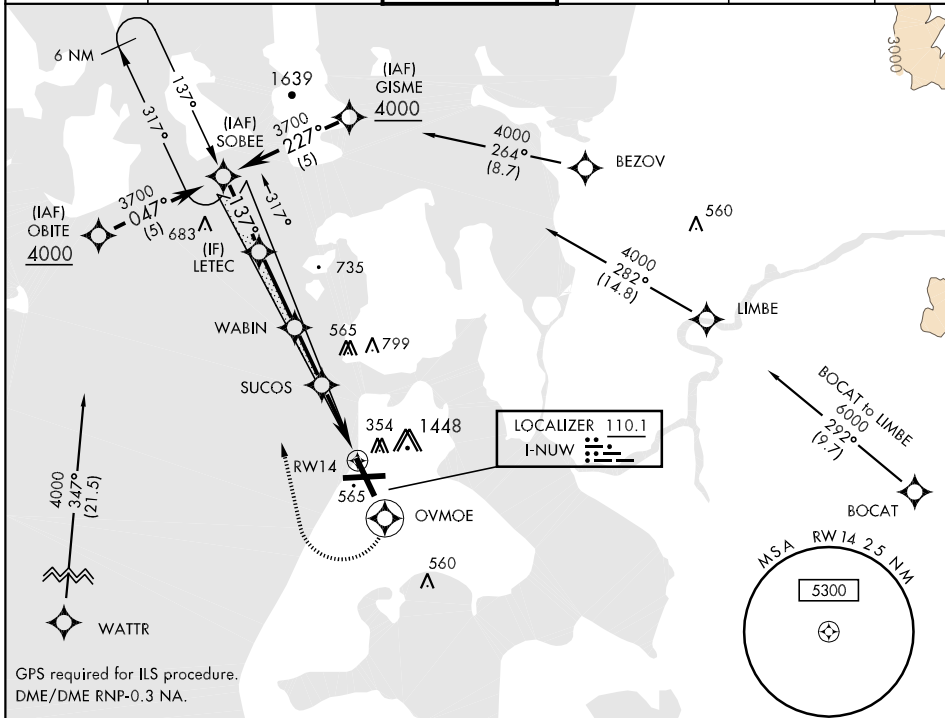
▼ * When ALS inop, increase CAT ABCDE vis to $\frac{3}{4}$ mile.
 ** When ALS inop, increase CAT AB vis to 1 mile, CAT C to $1\frac{1}{4}$ miles, CAT D to $1\frac{1}{2}$ miles, CAT E to $1\frac{3}{4}$ miles.

ALSF-1



MISSED APPROACH: Climb to 3700 direct OVMOE, then climbing right turn direct SOBEE and hold.

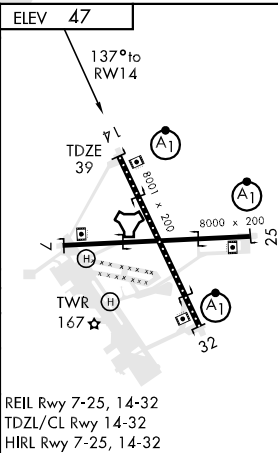
ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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GPS required for ILS procedure.
DME/DME RNP-0.3 NA.

EMERG SAFE ALT 100 NM 16,500

	SOBEE				
	3700				
	137°				
	LETEC				
	2700				
	1800				
	1040				
	GS 3.00°				
	TCH 53				
	3 NM				
CATEGORY	A				
S-ILS 14 *	239- $\frac{1}{2}$ 200 (200- $\frac{1}{2}$)				
LNAV MDA **	460- $\frac{1}{2}$ 421 (500- $\frac{1}{2}$)				
CIRCLING	780-1 733 (800-1)				
	800-1 $\frac{1}{4}$ 753 (800-1 $\frac{1}{4}$)				
	800-2 $\frac{1}{4}$ 753 (800-2 $\frac{1}{4}$)				
	860-2 $\frac{3}{4}$ 813 (900-2 $\frac{3}{4}$)				
	1100-3 1053 (1100-3)				



PENN COVE ONE DEPARTURE (CVV1.CVV)

WHIBDEY ISLAND VORTAC (VORTAC) (RWY07)
OAK HARBOR, WASHINGTON

ATIS 134.15 281.5
CLNC DEL
135.1 379.9
GND CON
121.75 336.4
WHIBDEY TOWER
127.9 340.2
WHIBDEY DEP CON
120.7 270.8 EAST
118.2 285.65 WEST

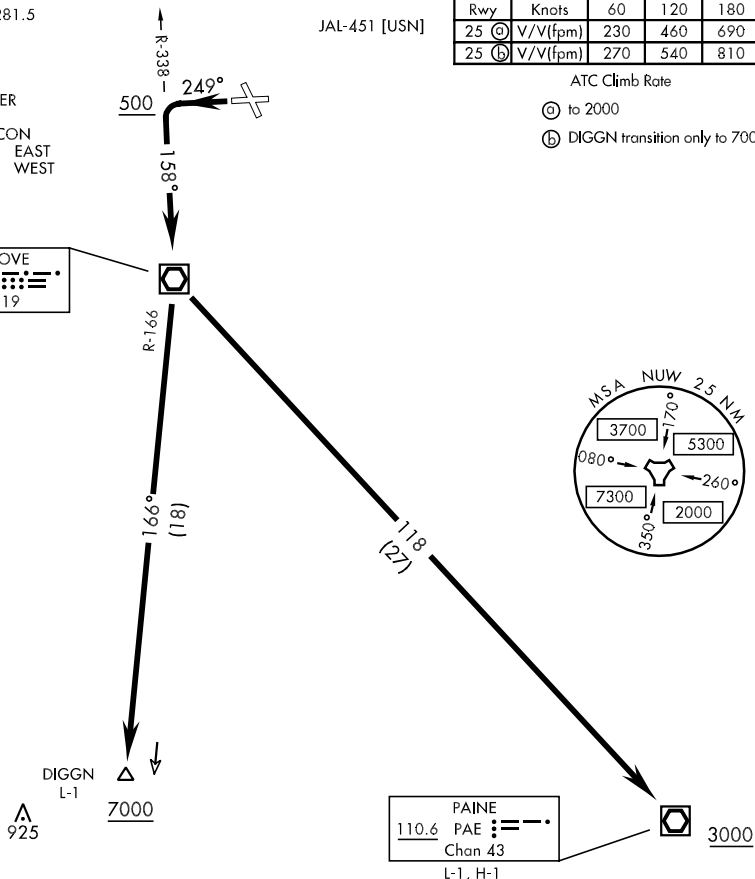
JAL-451 [USN]

Rwy	Knots	60	120	180	240
25 (A) V/V(fpm)		230	460	690	920
25 (B) V/V(fpm)		270	540	810	1080

ATC Climb Rate

- (A) to 2000
- (B) DIGGN transition only to 7000

PENN COVE
117.2 CVV
Chan 119



NOV-1, 03 JUN 2010 to 01 JUL 2010



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 25: Climb to 500 feet on heading 249°. Then climbing left turn to intercept CVV R-338 to CVV VOR/DME. Cross CVV VOR/DME at or above 2000 feet. Thence....

....Via assigned transition or fly heading 158° and expect vectors to join assigned route.

DIGGN TRANSITION (CVV1.DIGGN): Via CVV R-166 to DIGGN, cross DIGGN at or above 7000 feet.

PAINE TRANSITION (CVV1.PAE): Via CVV R-118 to PAE VOR/DME. Cross PAE VOR/DME at or above 3000 feet.

APCH CRS 249°	Rwy Idg 8000 TDZE 28 Arpt Elev 47
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AL-451 [USN]

WHIDBEY ISLAND NAS (AULT FLD) (KNUW)

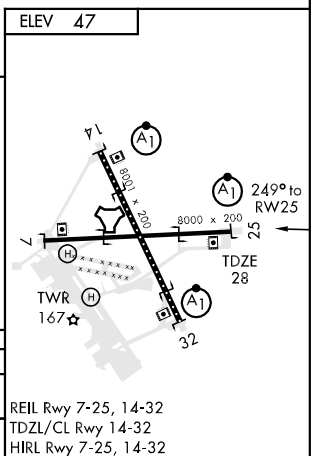
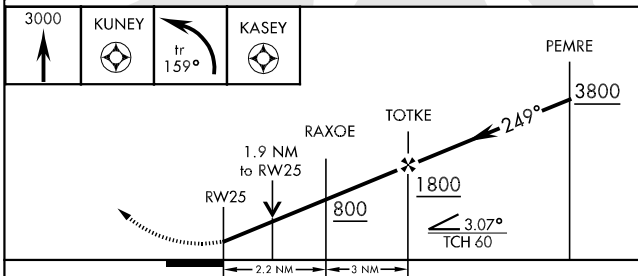
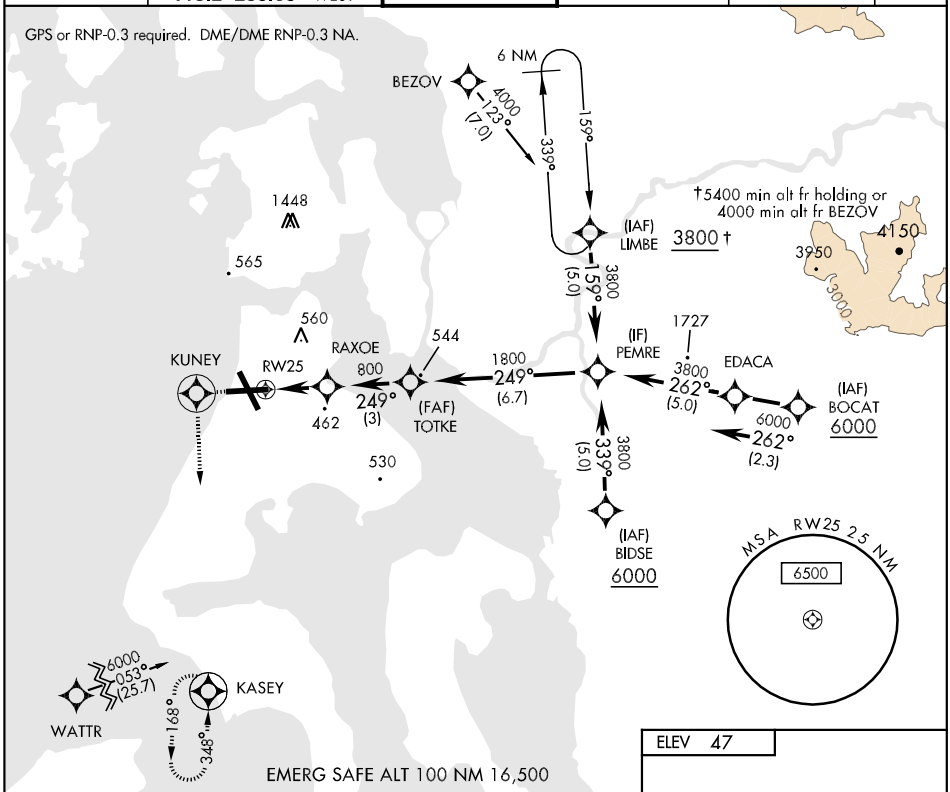
T * When ALS inop, increase CAT AB vis to 1 mile, CAT C to 2 miles, CAT D to 2¼ miles, CAT E to 2½ miles.

ALSF-1

MISSED APPROACH: Climb to 3000 direct KUNEY, then turn left via track 159° to KASEY and hold.

ATIS	WHIDBEY APP CON		WHIDBEY TOWER	GND CON	CLNC DEL	ASR/PAR
134.15 281.5	120.7 270.8	EAST	127.9 340.2	121.75 336.4	135.1 379.9	

GPS or RNP-0.3 required. DME/DME RNP-0.3 NA.



CATEGORY	A	B	C	D	E
LNAV MDA*	700-½	672 (700-½)	700-1½ 672 (700-1½)	700-1¾ 672 (700-1¾)	700-2 672 (700-2)
CIRCLING	780-1 733 (800-1)	800-1¼ 753 (800-1¼)	800-2¼ 753 (800-2¼)	860-2¾ 813 (900-2¾)	1100-3 1053 (1100-3)

OAK HARBOR, WASHINGTON

48° 21' N-122° 39' W

WHIDBEY ISLAND NAS (AULT FLD) (KNUW)

NW-1, 03 JUN 2010 to 01 JUL 2010

10042

TACAN NUW Chan 85	APCH CRS 058°	Rwy Idg 8000 TDZE 25 Arpt Elev 47
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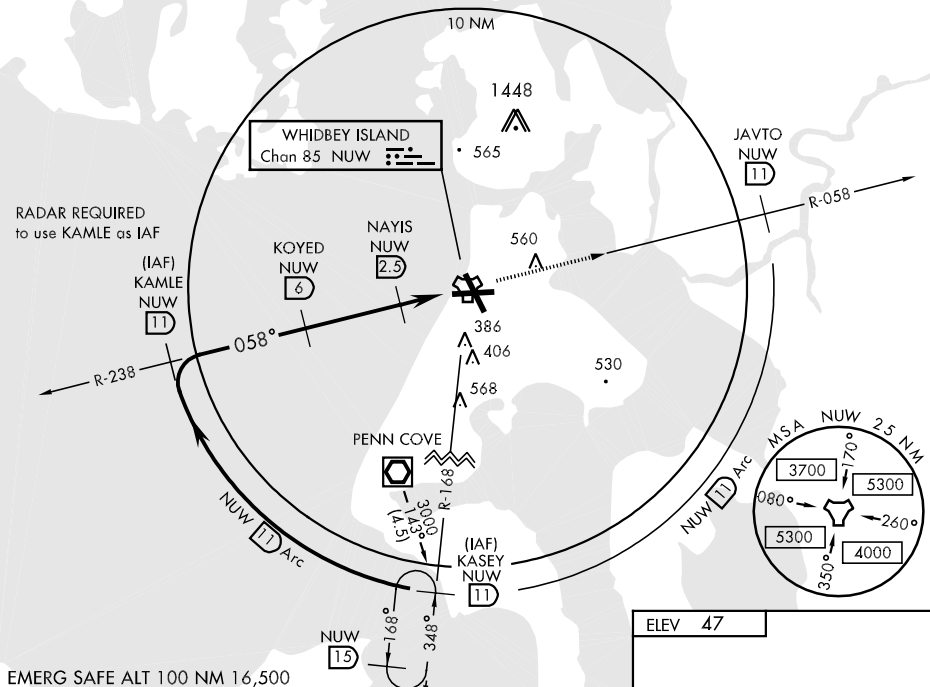
AL-451 [USN]

WHIDBEY ISLAND NAS (AULT FLD) (KNUW)

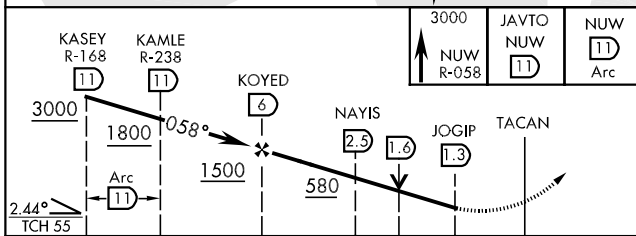
MISSED APPROACH: Climb to 3000 via R-058 to JAVTO, then arc SE of NUW TACAN via 11 DME Arc to KASEY and hold.

ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 118.2 285.65 EAST WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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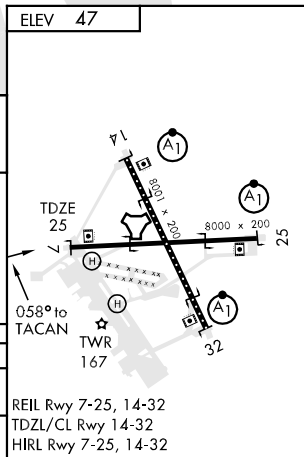
CAUTION:
CAT CD intmd seg length 5 NM



EMERG SAFE ALT 100 NM 16,500



CATEGORY	A	B	C	D
S-7	440-1 415 (400-1)		440-1¼ 415 (400-1¼)	
CIRCLING	780-1 733 (800-1)	800-1¼ 753 (800-1¼)	800-2¼ 753 (800-2¼)	860-2¼ 813 (900-2¼)



TACAN NUW Chan 85	APCH CRS 141°	Rwy ldg 8001 TDZE 39 Arpt Elev 47
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AL-451 [USN]

WHIDBEY ISLAND NAS (AULT FLD) (KNUW)

▼ *When ALS inop, increase CAT A8 vis to 1 mile,
CAT C to 1½ miles, CAT D to 1¾ miles.

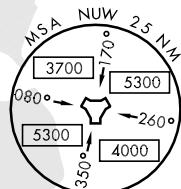
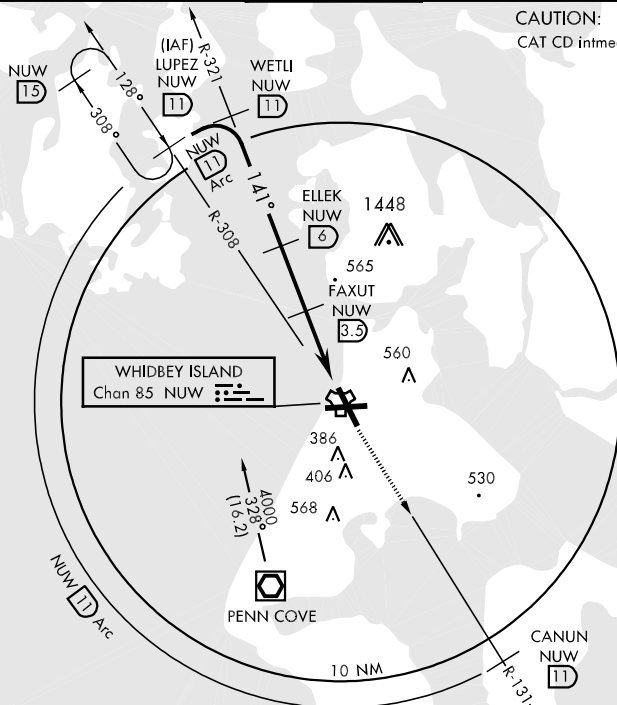
ALSF-1
A1

MISSED APPROACH: Climb to 4000 via R-131 to CANUN, then
arc SW of NUW TACAN via 11 DME Arc to LUPEZ and hold.

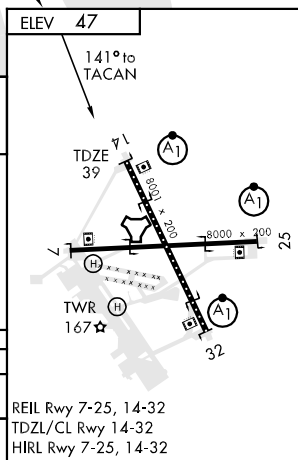
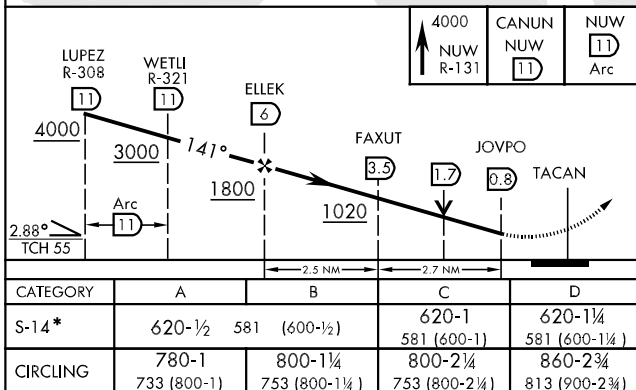
ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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CAUTION:

CAT CD intmed seg length 5 NM.



EMERG SAFE ALT 100 NM 16,500



TACAN NUW Chan 85	APCH CRS 254°	Rwy Idg 8000 TDZE 28 Arpt Elev 47
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AL-451 [USN]

WHIDBEY ISLAND NAS (AULT FLD) (KNUW)

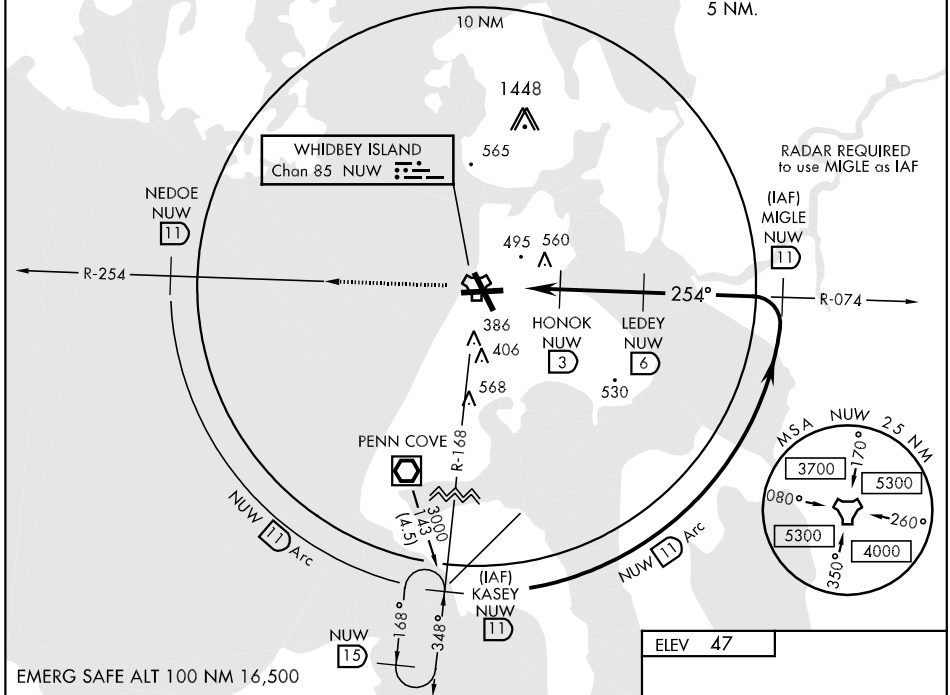
▼ * When ALS inop, increase CAT AB vis to 1 mile,
CAT C to 2 miles, CAT D to 2 1/4 miles.



MISSED APPROACH: Climb to 3000 via R-254 to NEDOE, then
arc SW of NUW TACAN via 11 DME Arc to KASEY and hold.

ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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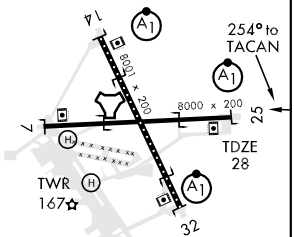
CAUTION: CAT CD intmed seg length
5 NM.



EMERG SAFE ALT 100 NM 16,500

CATEGORY	A		B	C	D
S-25 *	760-½	732 (800-½)	760-1½ 732 (800-1½)	760-1¾ 732 (800-1¾)	
CIRCLING	780-1 733 (800-1)	800-1¼ 753 (800-1¼)	800-2¼ 753 (800-2¼)	860-2¾ 813 (900-2¾)	

ELEV 47



REIL Rwy 7-25, 14-32
TDZL/CL Rwy 14-32
HIRL Rwy 7-25, 14-32

TACAN NUW Chan 85	APCH CRS 311°	Rwy ldg 8001 TDZE 47 Arpt Elev 47
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AL-451 [USN]

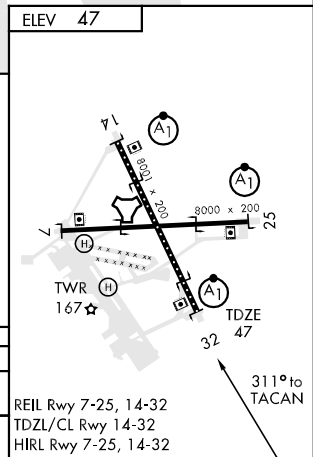
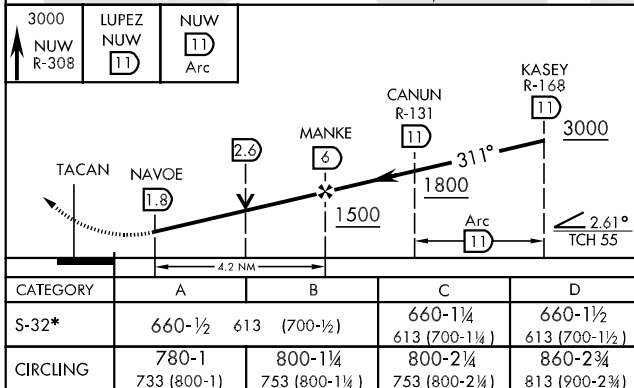
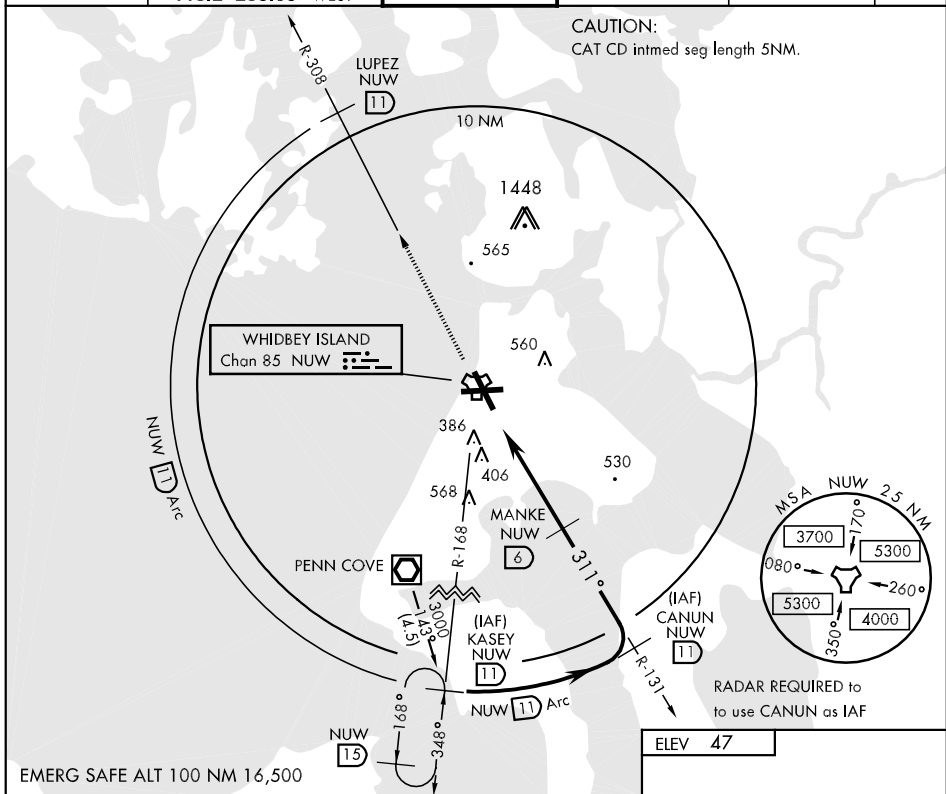
WHIDBEY ISLAND NAS (AULT FLD) (KNUW)

▼ * When ALS inop, increase CAT AB vis to 1 mile, CAT C to 1 ¾ miles, CAT D to 2 miles.

ALSF-1
A1

MISSED APPROACH: Climb to 3000 via R-308 to LUPEZ, then Arc SW of NUW TACAN via 11 DME Arc to KASEY and hold.

ATIS 134.15 281.5	WHIDBEY APP CON 120.7 270.8 EAST 118.2 285.65 WEST	WHIDBEY TOWER 127.9 340.2	GND CON 121.75 336.4	CLNC DEL 135.1 379.9	ASR/PAR
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APP CRS	Rwy Idg	2758
071°	TDZE	193
	Apt Elev	193

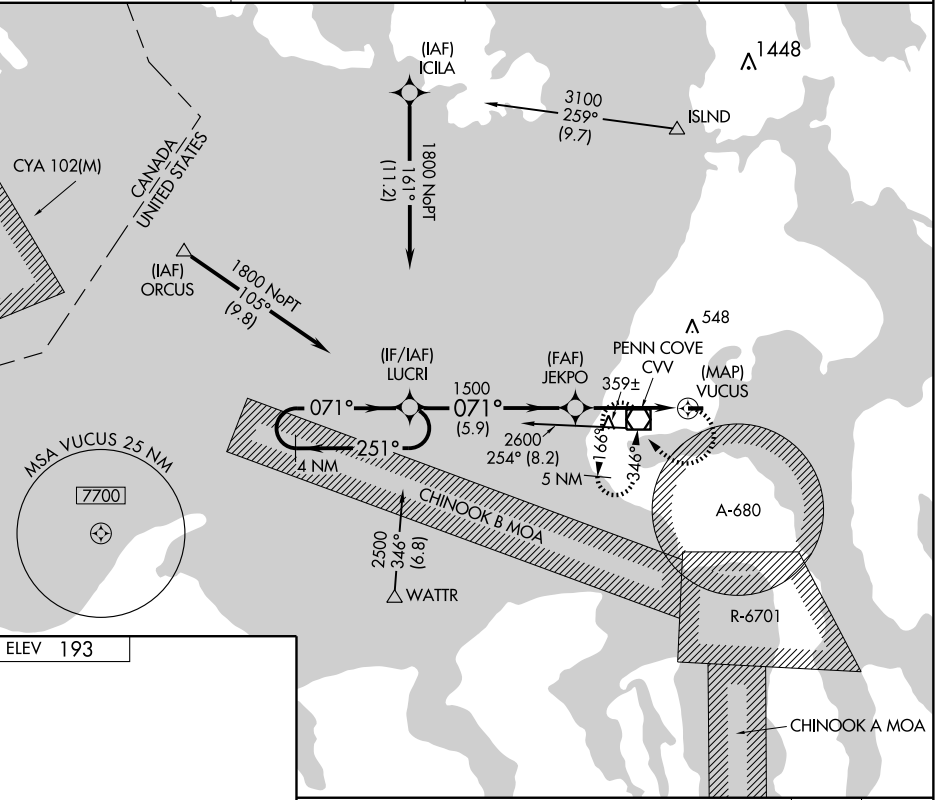
RNAV (GPS) RWY 7

OAK HARBOR/AJ EISENBERG (OKH)

DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
Circling north of Rwy 7-25 NA at night.
ASR When local altimeter setting not received, use Whidbey Island NAS altimeter setting and increase all MDAs 40 feet.

MISSED APPROACH: Climbing right turn to 3400 direct CVV VOR/DME and hold, continue climb-in-hold to 3400.

AWOS-3 132.775	WHIDBEY ATIS 134.15 281.5	WHIDBEY APP CON 118.2 285.65	UNICOM 122.8 (CTAF)
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ELEV 193

TDZE 193

071° to VUCUS

3265 X 25

1.6% UP

LURL Rwy 7-25

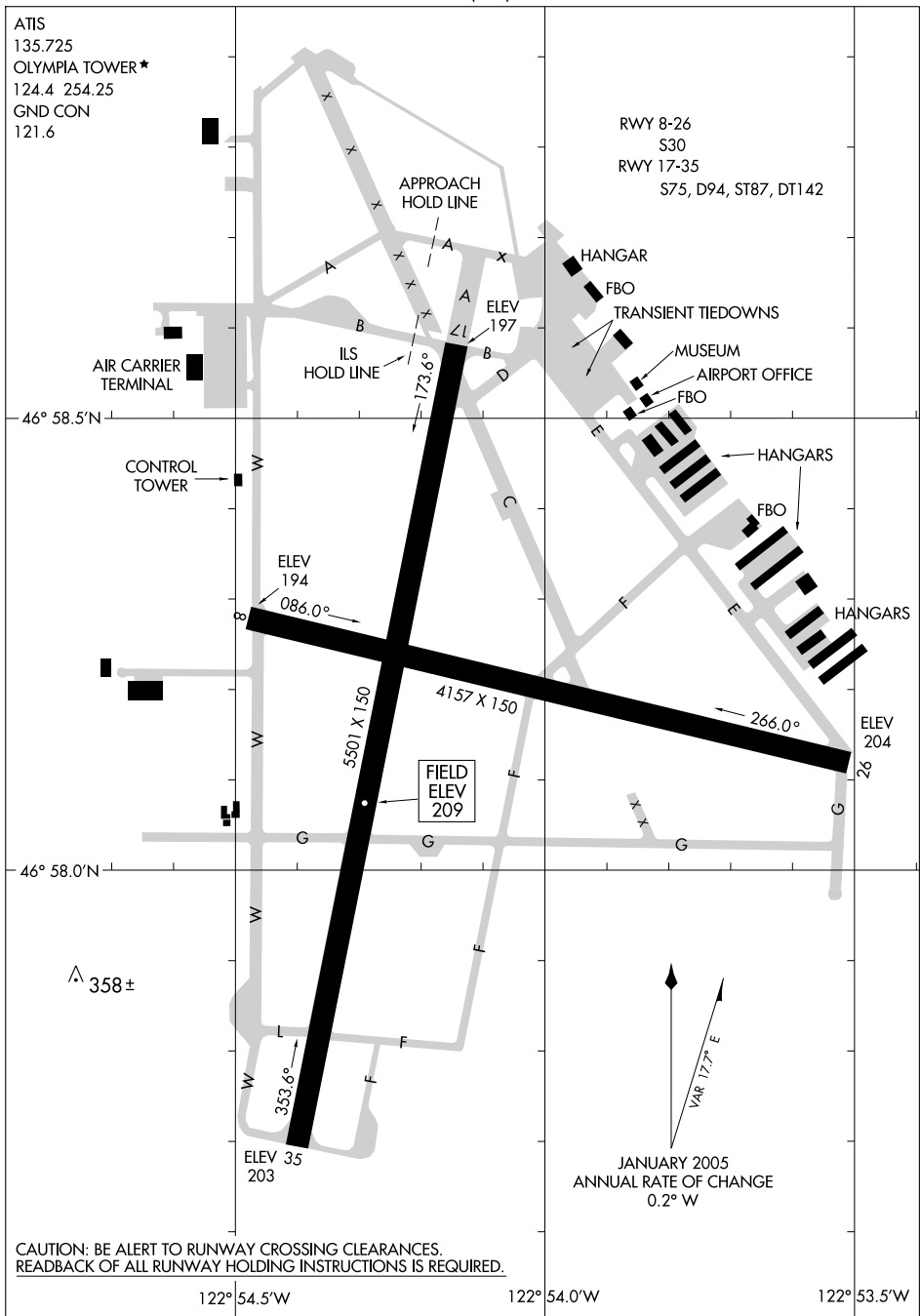
4 NM Holding Pattern				3400	CVV
CATEGORY	A	B	C	D	
LNAV MDA	620-1	427 (500-1)	NA		
CIRCLING	620-1	660-1	NA		
	427 (500-1)	467 (500-1)			

NW-1, 03 JUN 2010 to 01 JUL 2010

AIRPORT DIAGRAM

AL-645 (FAA)

OLYMPIA RGNL (OLM)
OLYMPIA, WASHINGTON



NW-1. 03 JUN 2010 to 01 JUL 2010

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READEBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

LOC I-OLM	APP CRS	Rwy Idg	5501
111.9	172°	TDZE	207
		Apt Elev	209

ILS or LOC RWY 17

OLYMPIA RGNL (OLM)

▼ DME or RADAR required. When local altimeter setting not received, use Sanderson Field altimeter setting and increase all DA 53 feet and all MDA 60 feet, and increase circling Cats C and D visibility ¼ mile. For inoperative MALSR, when using Sanderson Field altimeter setting, increase S-ILS 17 all Cats visibility to 1 mile.

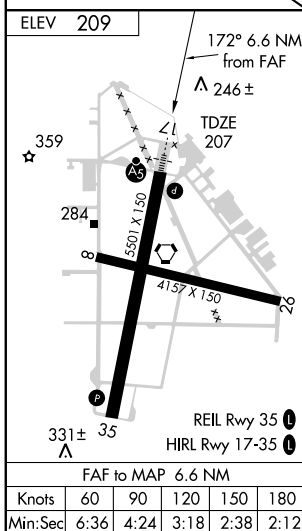
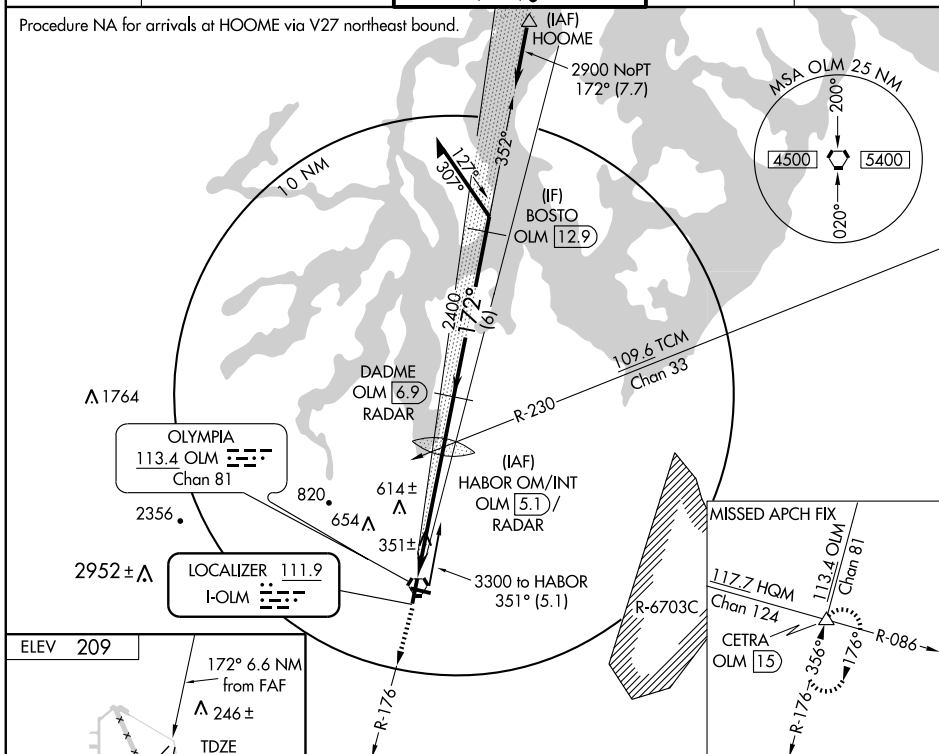
MALSR



MISSED APPROACH: Climb to 1400, then continue climb to 5500 via OLM VORTAC R-176 to CETRA INT/OLM VORTAC 1.5 DME and hold, continue climb-in-hold to 5500.

ATIS 135.725	SEATTLE APP CON 121.1 290.9	OLYMPIA TOWER* 124.4 (CTAF) 254.25	GND CON 121.6	UNICOM 122.95
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Procedure NA for arrivals at HOOME via V27 northeast bound.



ELEV 209	172° 6.6 NM from FAF	246 ±	TDZE 207	331 ± 35
1400	5500	CETRA	HARBOR OM/INT OLM 5.1 /RADAR	3300
OLM R-176	OLM 0.3	1787	DADME OLM 6.9 /RADAR	2400
OLM 0.3	4.8 NM	1.8 NM	2900	GS 3.00° TCH 53
CATEGORY	A	B	C	D
S-ILS 17	414-½ 207 (300-½)			
S-LOC 17	640-½	433 (500-½)	640-¾ 433 (500-¾)	640-1 433 (500-1)
CIRCLING	720-1	511 (600-1)	820-1¾ 611 (700-1¾)	860-2 651 (700-2)

RNAV (GPS) RWY 17

OLYMPIA RGNL (OLM)

WAAS CH 45599 W17A	APP CRS 172°	Rwy Idg TDZE Apt Elev	5501 207 209
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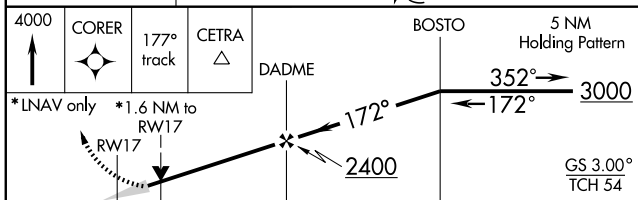
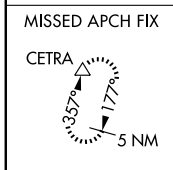
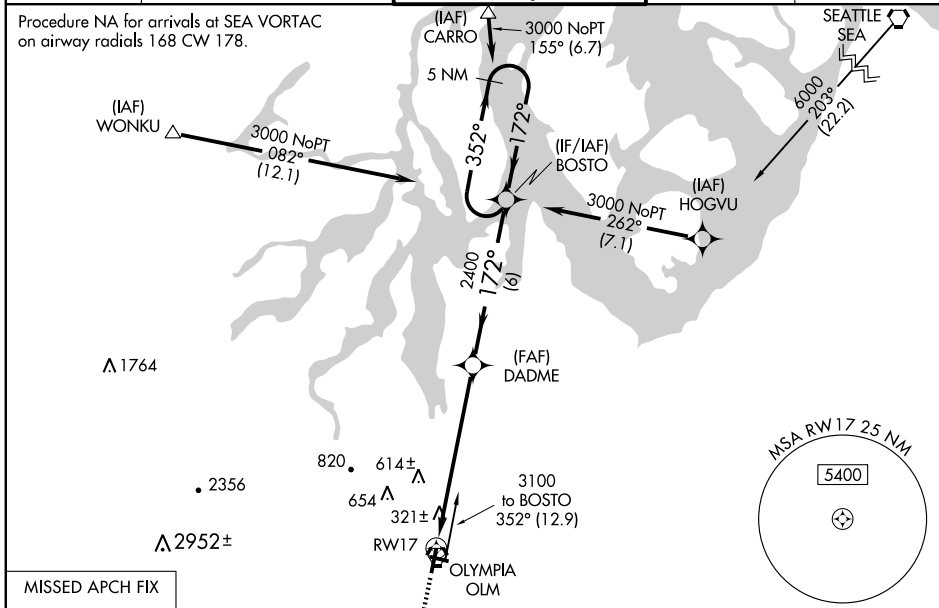
▼ DME/DME RNP-0.3 NA. For inoperative MALSR, increase LPV visibility all Cats to 1¼.
▲ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 49°C (120°F). When local altimeter setting not received, use Sanderson Field altimeter setting and increase all DA 53 feet and all MDA 60 feet; increase LPV and LNAV/VNAV visibility all Cats, LNAV Cts C/D and circling visibility Cts C/D ¼ mile. VDP and Baro-VNAV NA when using Sanderson Field altimeter setting.



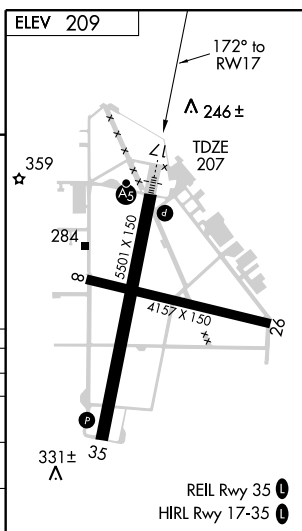
MISSED APPROACH: Climb to 4000 direct CORER and via 177° track to CETRA and hold, continue climb-in-hold to 4000.

ATIS 135.725	SEATTLE APP CON 121.1 290.9	OLYMPIA TOWER★ 124.4 (CTAF) 254.25	GND CON 121.6	UNICOM 122.95
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Procedure NA for arrivals at SEA VORTAC on airway radials 168 CW 178.



CATEGORY	A	B	C	D
LPV DA	590-¾ 383 (400-¾)			
LNAV/VNAV DA	636-1 429 (500-1)			
LNAV MDA	760-½ 553 (600-½)		760-1 553 (600-1)	760-1¼ 553 (600-1¼)
CIRCLING	760-1 551 (600-1)		820-1¾ 860-2 611 (700-1¾)	860-2 651 (700-2)



RNAV (GPS) RWY 35

OLYMPIA RGNL (OLM)

APP CRS
352°

Rwy Idg
5501

TDZE
208

Apt Elev
209

When local altimeter setting not received, use Sanderson Field altimeter setting and increase all MDAs 60 feet; increase visibility LNAV Cats C/D ¼ mile and circling Cat D ¼ mile.
DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 4000 direct BOSTO and hold, continue climb-in-hold to 4000.

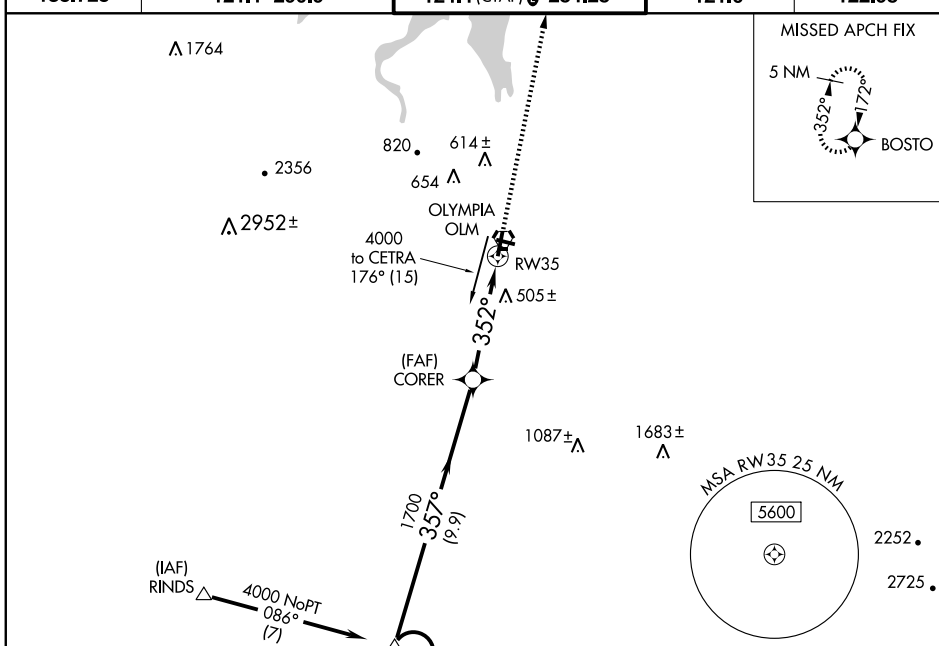
ATIS
135.725

SEATTLE APP CON
121.1 290.9

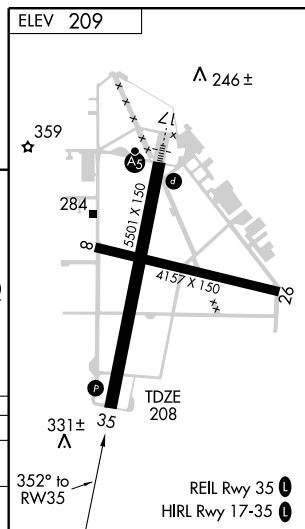
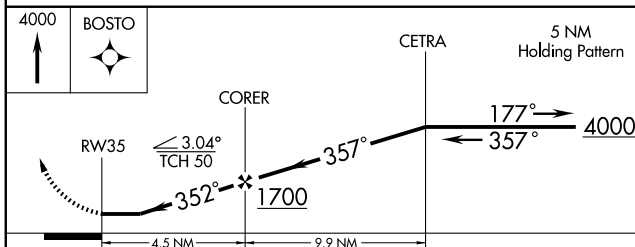
OLYMPIA TOWER★
124.4 (CTAF) 0 254.25

GND CON
121.6

UNICOM
122.95



MISSED APCH FIX



CATEGORY	A	B	C	D
LNAV MDA	760-1	552 (600-1)	760-1½ 552 (600-1½)	760-1¾ 552 (600-1¾)
CIRCLING	760-1	551 (600-1)	820-1¾ 611 (700-1¾)	860-2 651 (700-2)

OLYMPIA, WASHINGTON

AL-645 (FAA)

VORTAC OLM 113.4 Chan 81	APP CRS 171°	Rwy Idg TDZE Apt Elev 209	N/A N/A 209
--	------------------------	---	--

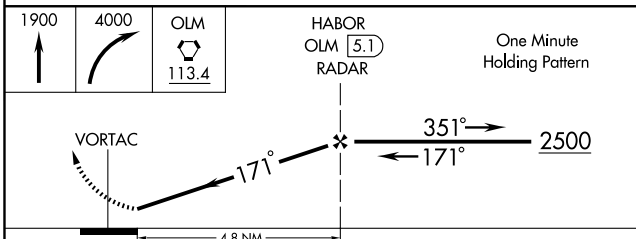
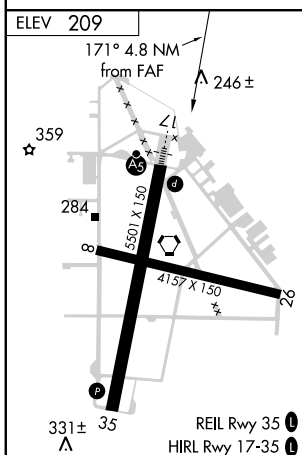
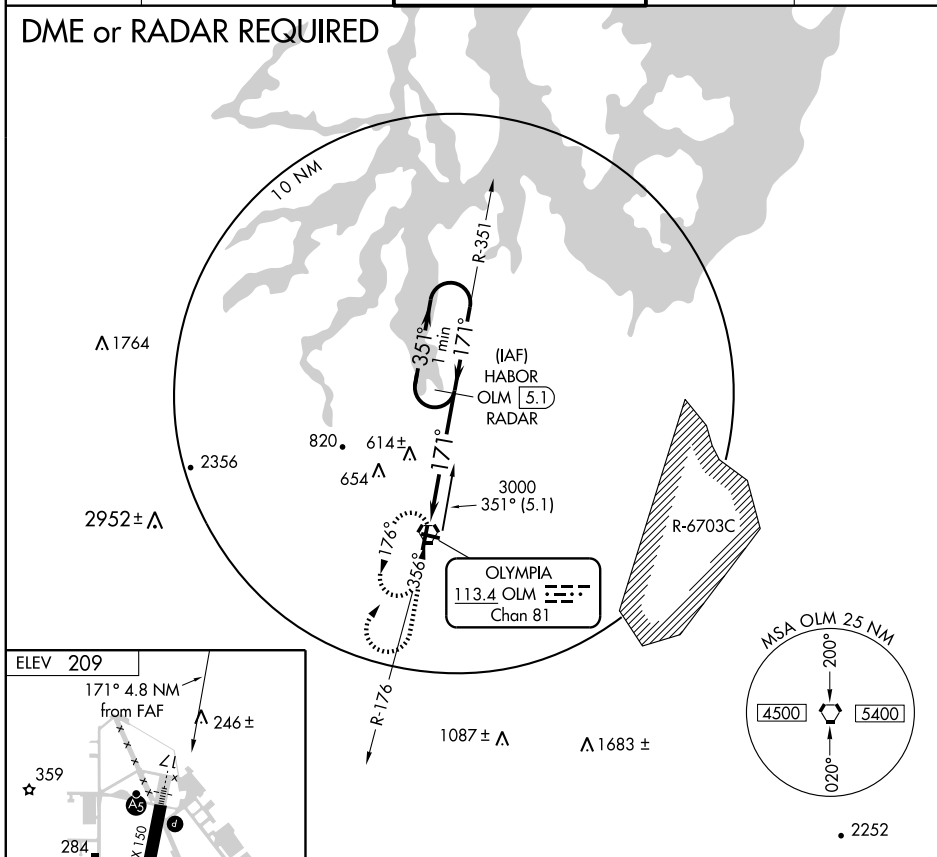
VOR-A
OLYMPIA RGNL (OLM)

⚠ When local altimeter setting not received, use Sanderson
⚠ Field altimeter setting and increase all MDA 60 feet.
DME or RADAR required.

MISSED APPROACH: Climb to 1900 then climbing right
turn to 4000 direct OLM VORTAC and hold, continue
climb-in-hold to 4000.

ATIS 135.725	SEATTLE APP CON 121.1 290.9	OLYMPIA TOWER★ 124.4 (CTAF) 0 254.25	GND CON 121.6	UNICOM 122.95
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DME or RADAR REQUIRED



FAF to MAP 4.8 NM						CATEGORY	A	B	C	D
Knots	60	90	120	150	180	CIRCLING	880-1	671 (700-1)	880-2	880-2¼
Min:Sec	4:48	3:12	2:24	1:55	1:36				671 (700-2)	671 (700-2¼)

NW-1, 03 JUN 2010 to 01 JUL 2010

AL-645 (FAA)

VORTAC OLM 113.4 Chan 81	APP CRS 356°	Rwy Idg 5501 TDZE 208 Apt Elev 209
--	------------------------	---

VOR/DME RWY 35
OLYMPIA RGNL (OLM)

T When local altimeter setting not received, use Sanderson Field altimeter setting and increase all MDAs 60 feet; increase visibility

A S-35 Cats C/D ¼ mile and circling Cat D ¼ mile.
Visibility reduction by helicopters NA.

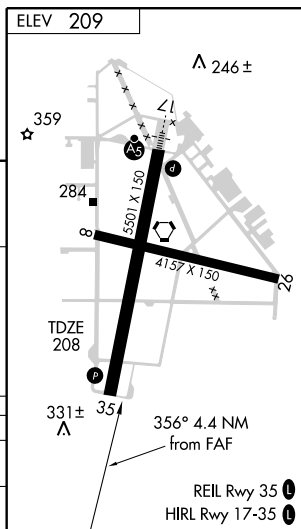
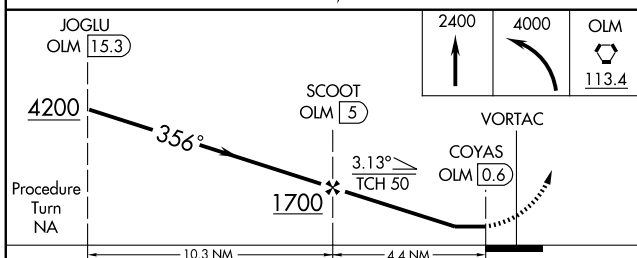
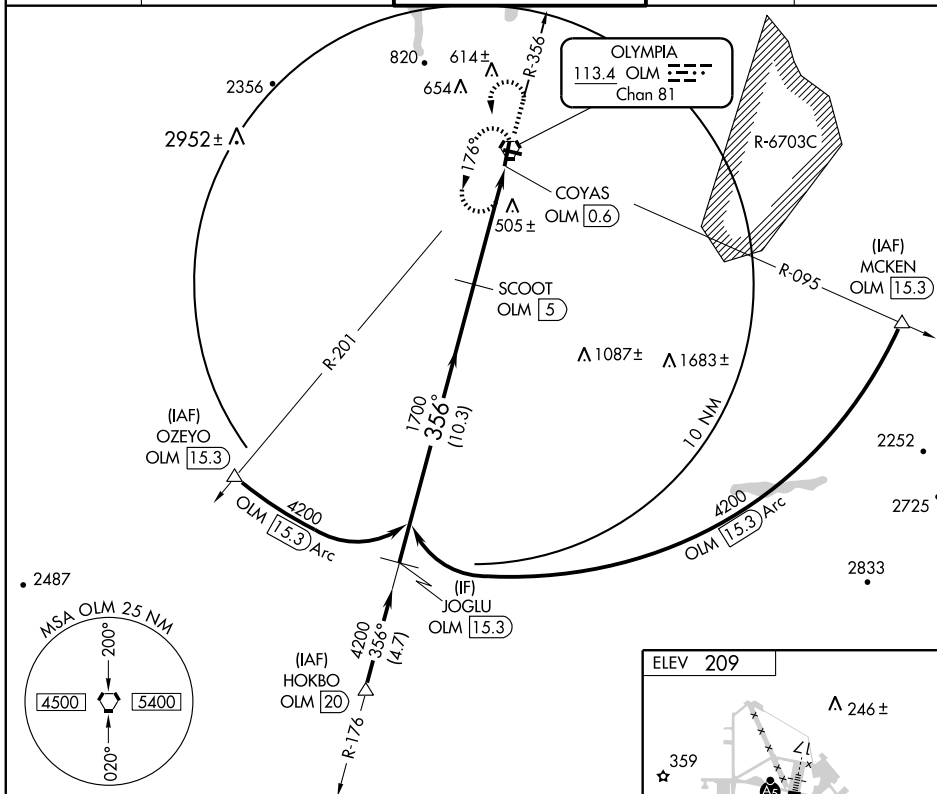
MISSED APPROACH: Climb to 2400, then climbing left turn to 4000 direct OLM VORTAC and hold, continue climb-in-hold to 4000.

ATIS
135.725

SEATTLE APP CON
121.1 290.9

OLYMPIA TOWER★
124.4 (CTAF) 254.25

GND CON
121.6

UNICOM
122.95

CATEGORY	A	B	C	D
S-35	760-1	552 (600-1)	760-1½ 552 (600-1½)	760-1¾ 552 (600-1¾)
CIRCLING	760-1	551 (600-1)	820-1¾ 611 (700-1¾)	860-2 651 (700-2)

NW-1. 03 JUN 2010 to 01 JUL 2010

YELM TWO DEPARTURE

SL-645 (FAA)

OLYMPIA RGNL (OLM)

OLYMPIA, WASHINGTON

ASOS 135.725

GND CON

121.6

OLYMPIA TOWER ★

124.4 (CTAF) 254.25

SEATTLE DEP CON

121.1 290.9

TATOOSH

112.2 TOU $\equiv \equiv \equiv$

Chan 59

N48°17.99'-W124°37.62'

L-1, H-1

PAINE

110.6 PAE $\equiv \equiv \equiv$

Chan 43

N47°55.19'-W122°16.66'

L-1, H-1

SEATTLE

116.8 SEA $\equiv \equiv \equiv$

Chan 115

N47°26.12'-W122°18.58'

L-1, H-1

TAKE-OFF MINIMUMS

Rwy 8, 26: NA- ATC

Rwy 17: Rwy 17, 300-2 or standard with minimum
climb of 706' per NM to 600.

Rwy 35: Standard

OLYMPIA

113.4 OLM $\equiv \equiv \equiv$

Chan 81

N46°58.30'-W122°54.11'

L-1, H-1

McCHORD

109.6 TCM $\equiv \equiv \equiv$

Chan 33

N47°08.86'-W122°28.50'

L-1

HOQUIAM

117.7 HQM $\equiv \equiv \equiv$

Chan 124

N46°56.82'-W124°08.96'

L-1, H-1

NEWBERG

117.4 UBG $\equiv \equiv \equiv$

Chan 121

N45°21.19'-W122°58.69'

L-1, H-1

BATTLE GROUND

116.6 BTG $\equiv \equiv \equiv$

Chan 113

N45°44.87'-W122°35.49'

L-1, H-1

NOTE: RADAR required.

NOTE: Chart not to scale.

TAKE-OFF OBSTACLE NOTES

RWY 17: Multiple trees beginning 1005' from DER, 24' left of centerline, up to 100' AGL/490' MSL.

Multiple trees beginning 752' from DER, 3' right of centerline, up to 100' AGL/370' MSL.

RWY 35: Multiple trees beginning 2176' from DER, 198 feet left of centerline up to 100' AGL/313' MSL.

Multiple trees and FLDLT on HGR beginning 657' from DER, 621' right of centerline, up to 100' AGL/ 315' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 17: Turn left. Thence....

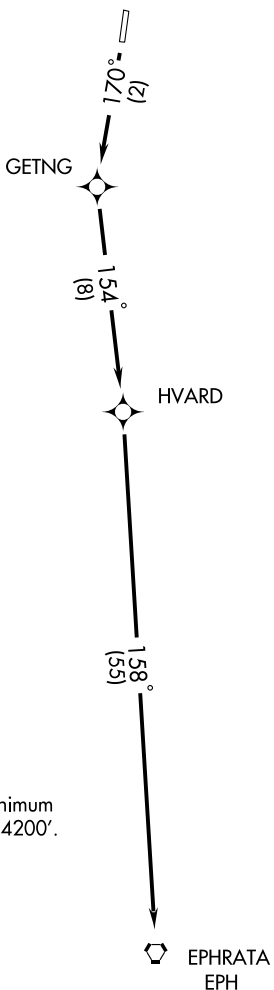
TAKE-OFF RUNWAY 35: Turn right. Thence....

...Climb via heading 060°, maintain 2000. Expect radar vectors on course and filed altitude within five minutes after departure.

LOST COMMUNICATIONS: If no contact with ATC within 6 NM of OLM VORTAC, or 2 minutes after departure for non-DME aircraft, turn left direct OLM VORTAC, continue climb in OLM VORTAC holding pattern to cross OLM VORTAC at or above R-086 CW R-064 4000 feet; R-065 CW R-085 7300 feet, continue climb via assigned route.

GETNG ONE DEPARTURE (RNAV) (OBSTACLE)

SEATTLE CENTER
126.1 291.6
SEATTLE RADIO
122.2



NOTE: 2200-2 or standard with a minimum climb of 300 Feet per Mile to 4200'.

NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 17: Climb to 4200 via 170° course to GETNG WP, 154° course to HVARD WP, and 158° course to EPH VORTAC. Thence proceed on course.

TAKE-OFF RUNWAY 35: NA

APP CRS	Rwy Idg	4654
335°	TDZE	1299
	Apt Elev	1301

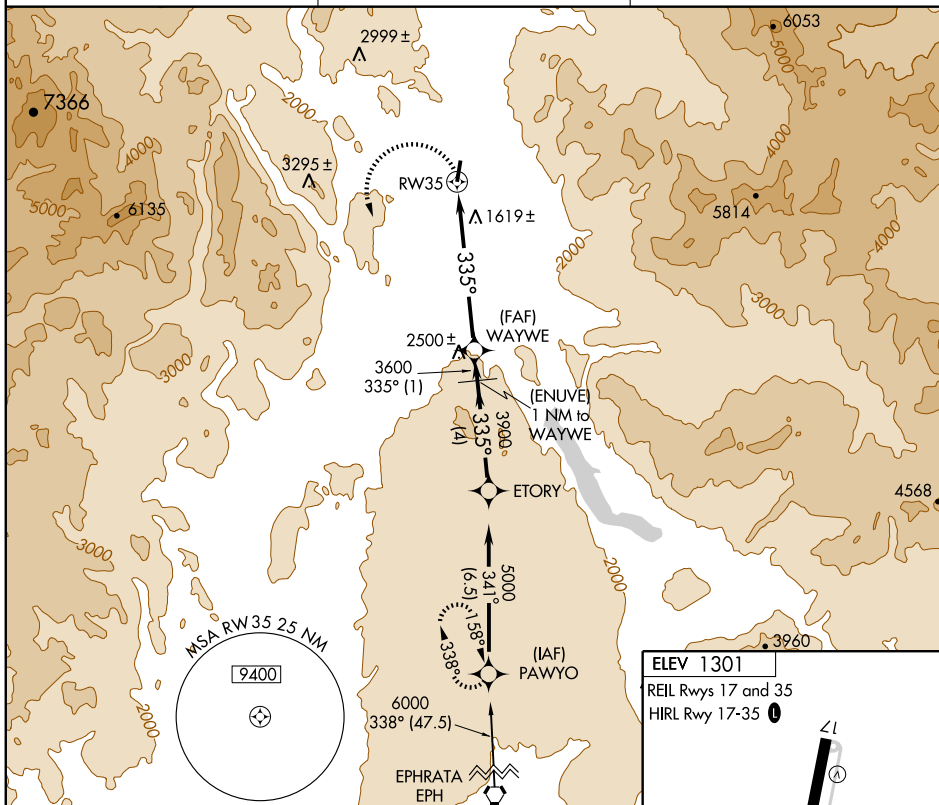
GPS RWY 35
OMAK (OMK)



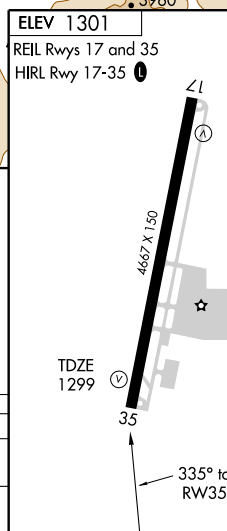
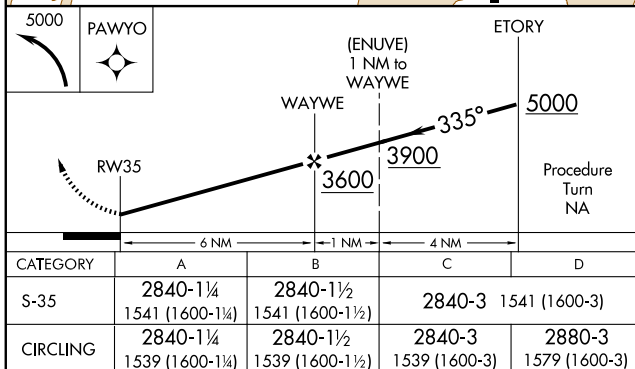
MISSED APPROACH: Climbing left turn to 5000 direct PAWYO WP and hold.

ASOS
118.325

SEATTLE CENTER
126.1 291.6

UNICOM
122.8 (CTAF) **L**

NW-1. 03 JUN 2010 to 01 JUL 2010



AIRPORT DIAGRAM

AL-474 (FAA)

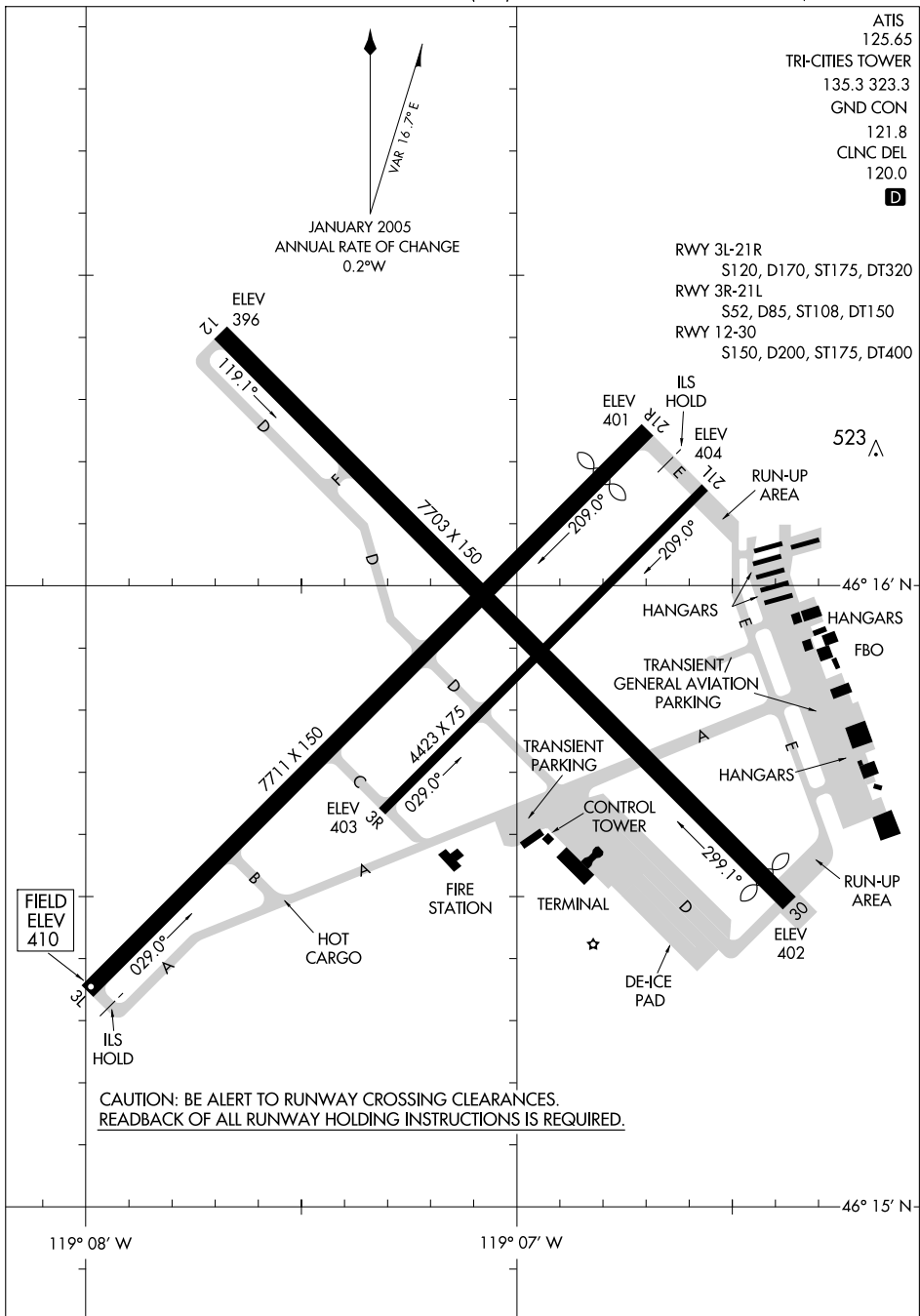
PASCO/TRI-CITIES (PSC)
PASCO, WASHINGTON

ATIS
125.65
 TRI-CITIES TOWER
135.3 323.3
 GND CON
121.8
 CLNC DEL
120.0



JANUARY 2005
 ANNUAL RATE OF CHANGE
 0.2°W

RWY 3L-21R
S120, D170, ST175, DT320
 RWY 3R-21L
S52, D85, ST108, DT150
 RWY 12-30
S150, D200, ST175, DT400



NW-1, 03 JUN 2010 to 01 JUL 2010

LOC I-PSC <u>108.7</u>	APP CRS 206°	Rwy Idg 7111 TDZE 404 Apt Elev 410
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ILS or LOC RWY 21R

PASCO/ TRI-CITIES (PSC)

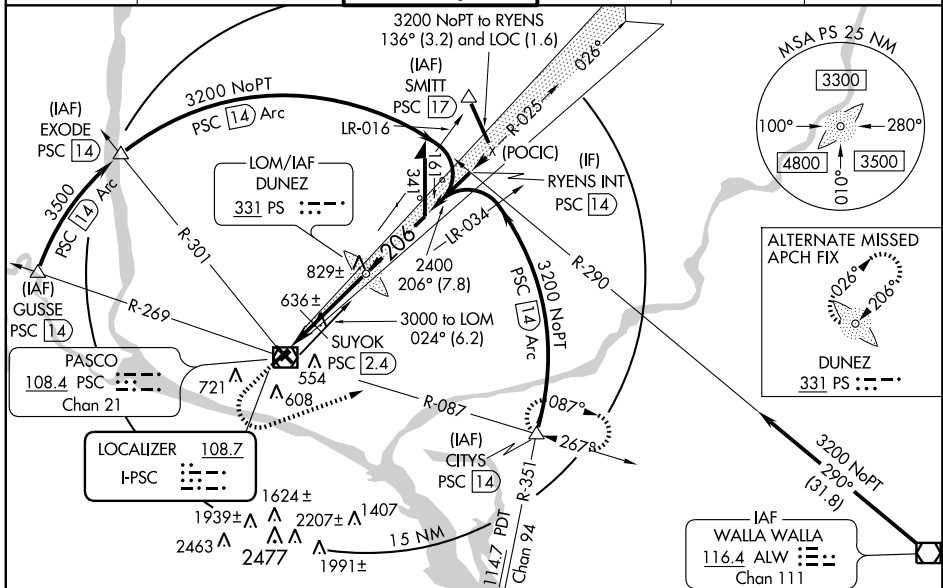
- V** If local altimeter setting not received, use Hermiston altimeter setting and increase all DAs/MDAs 100 feet.
- A** DME from PSC VOR/DME. Simultaneous reception of I-PSC and PSC VOR/DME when DME required.
- **RVR 1800 authorized with the use of FD or AP or HUD to DA.**
- Circling to Rwy 03R NA at night.**

MALSR



MISSED APPROACH: Climb to 1200 then climbing left turn to 3200 via heading 050° and PSC VOR/DME R-087 to CITYS INT/ PSC 14 DME and hold.

ATIS★ 125.65	CHINOOK APP CON★ 128.75 377.2	TRI-CITIES TOWER★ 135.3 (CTAF) 0 323.3	GND CON 121.8	CLNC DEL 120.0	UNICOM 122.95
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ELEV 410	D
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REIL Rwy 3L and 12
MIRL Rwy 12-30 **L**
HIRL Rwy 3L-21R **L**

FAF to MAP 5.9 NM

Knots	60	90	120	150	180
Min:Sec	5:54	3:56	2:57	2:22	1:58

Diagram illustrating the SUYOK FIX and associated flight data:

- Altitudes:** 1200, 3200, PSC R-087 108.4, 050°, 1080*%, 2360, 2400, 2900.
- Distances:** 2 NM, 3.9 NM.
- Angles:** 026°, 206°.
- Notes:**
 - %1180 when using Hermiston altimeter setting.
 - *LOC only
 - Remain within 10 NM
 - GS 3.00° TCH 55

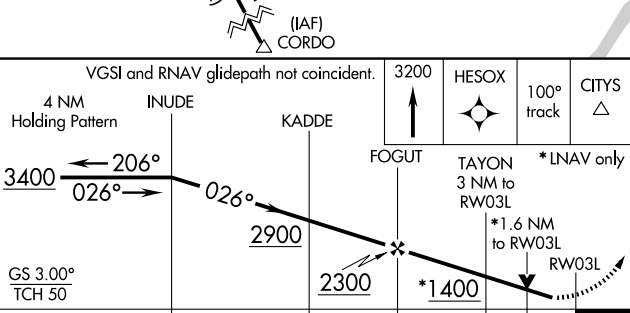
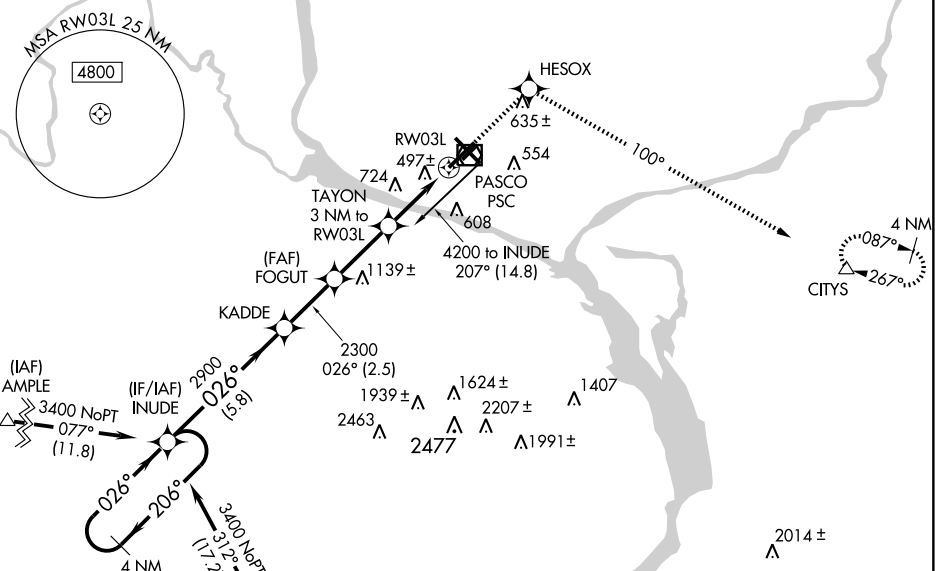
WAAS CH 40206 W03A	APP CRS 026°	Rwy Idg TDZE Apt Elev	7111 410 410
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RNAV (GPS) RWY 3L
PASCO/TRI-CITIES (PSC)

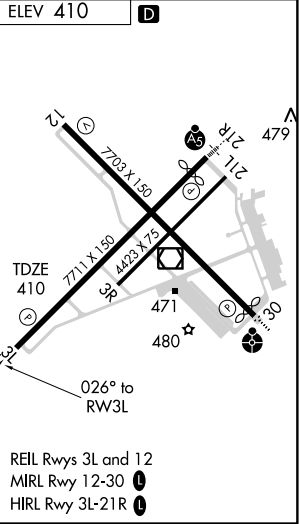
When local altimeter setting not received, use Hermiston altimeter setting and increase all DAs/MDAs 100 feet and all visibilities ¼ mile.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
VDP and Baro-VNAV NA when using Hermiston altimeter setting.
Circling to Rwy 3R NA at night. Visibility reduction by helicopters NA.
DME/DME RNP: 0.3 NA.

MISSED APPROACH: Climb to 3200 direct HESOX and via 100° track to CITYS and hold.

ATIS ★ 125.65	CHINOOK APP CON★ 128.75 377.2	TRI-CITIES TOWER★ 135.3 (CTAF) 0 323.3	GND CON 121.8	CLNC DEL 120.0	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	660-1 250 (300-1)			
LNAV/VNAV DA	829-1½ 419 (500-1½)			
LNAV MDA	960-1 550 (600-1)	960-1½ 550 (600-1½)	960-1¾ 550 (600-1¾)	
CIRCLING	960-1 550 (600-1)	960-1½ 550 (600-1½)	1040-2 630 (700-2)	



⚠ When local altimeter setting not received, use Hermiston altimeter setting and increase all DAs/MDAs 100 feet and all visibilities ½ mile.

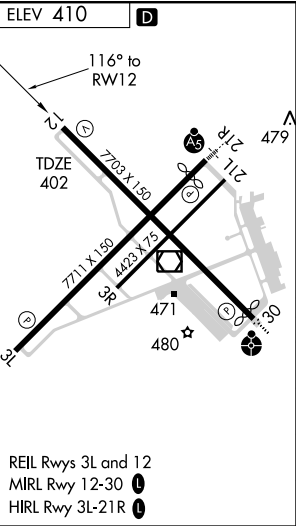
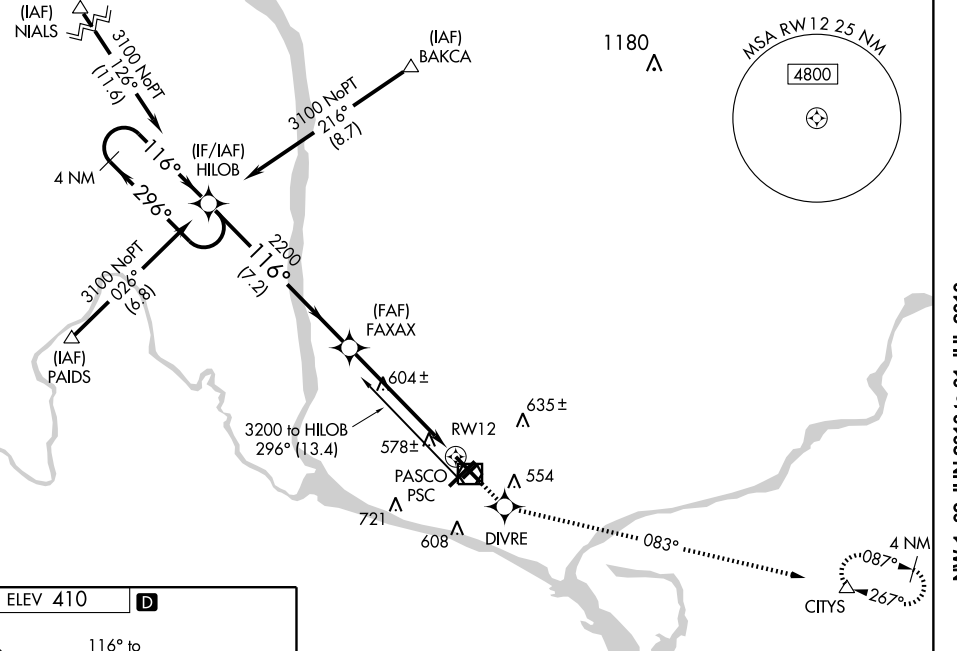
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).

VDP and Baro-VNAV NA when using Hermiston altimeter setting.

Circling to Rwy 3R NA at night. DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 3200 direct DIVRE and via 083° track to CITYS and hold.

ATIS ★ 125.65	CHINOOK APP CON ★ 128.75 377.2	TRI-CITIES TOWER ★ 135.3 (CTAF) 0 323.3	GND CON 121.8	CLNC DEL 120.0	UNICOM 122.95
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4 NM Holding Pattern		HILOB	3200 ↑	DIVRE ✦	083° track	CITYS △
3100		296° ← 116°→	FAXAX	*LNAV only		
GS 3.00° TCH 56		116°	2200	*1.3 NM to RW12	RW12	
		7.2 NM	4.1 NM	1.3 NM		
CATEGORY	A	B	C	D		
LPV DA	748-1¼ 346 (400-1¼)					
LNAV/ VNAV DA	894-1¾ 492 (500-1¾)					
LNAV MDA	860-1 458 (500-1)	860-1¼ 458 (500-1¼)		860-1½ 458 (500-1½)		
CIRCLING	920-1 510 (600-1)	920-1½ 510 (600-1½)		1040-2 630 (700-2)		

NW-1. 03 JUN 2010 to 01 JUL 2010

RNAV (GPS) RWY 21R

PASCO/TRI-CITIES (PSC)

WAAS CH 40303 W21A	APP CRS 206°	Rwy Idg TDZE Apt Elev	7111 404 410
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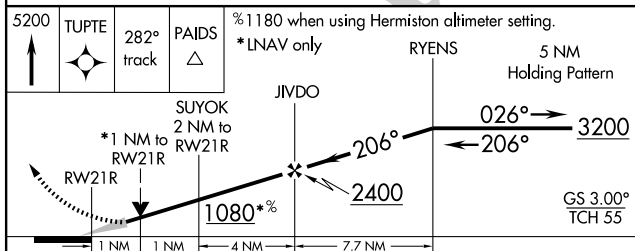
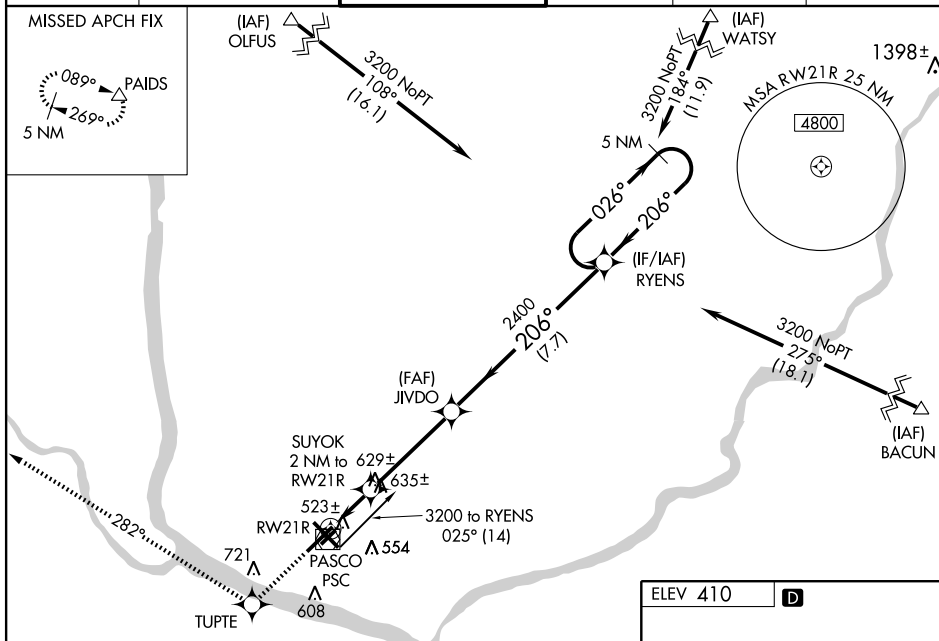
▼ For inoperative MALSR, increase LPV all Cats visibility to RVR 5000 and LNAV Cat D visibility to RVR 6000.
▲ If local altimeter setting not received, use Hermiston altimeter setting and increase all DAs/MDAs 100 feet.
 For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA.
 VDP and Baro-VNAV NA when using Hermiston altimeter setting.

MALSR

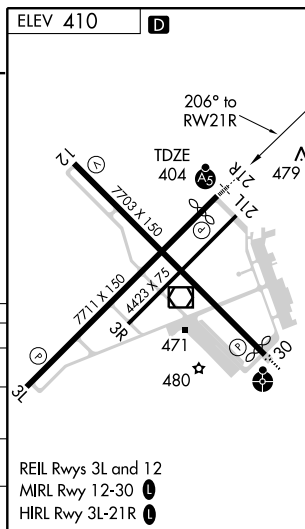


MISSED APPROACH: Climb to 5200 direct TUPTTE and via 282° track to PAIDS and hold, continue climb-in-hold to 5200.

ATIS ★ 125.65	CHINOOK APP CON★ 128.75 377.2	TRI-CITIES TOWER★ 135.3 (CTAF) 0 323.3	GND CON 121.8	CLNC DEL 120.0	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	680/24	276 (300-½)		
LNAV/VNAV DA	797/40	393 (400-¾)		
LNAV MDA	780/24	376 (400-½)	780/50	376 (400-1)
CIRCLING	880-1 470 (500-1)	900-1½ 490 (500-1½)	1040-2 630 (700-2)	



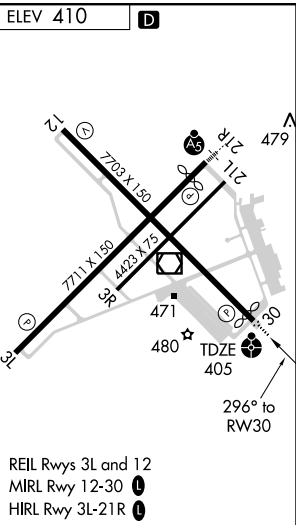
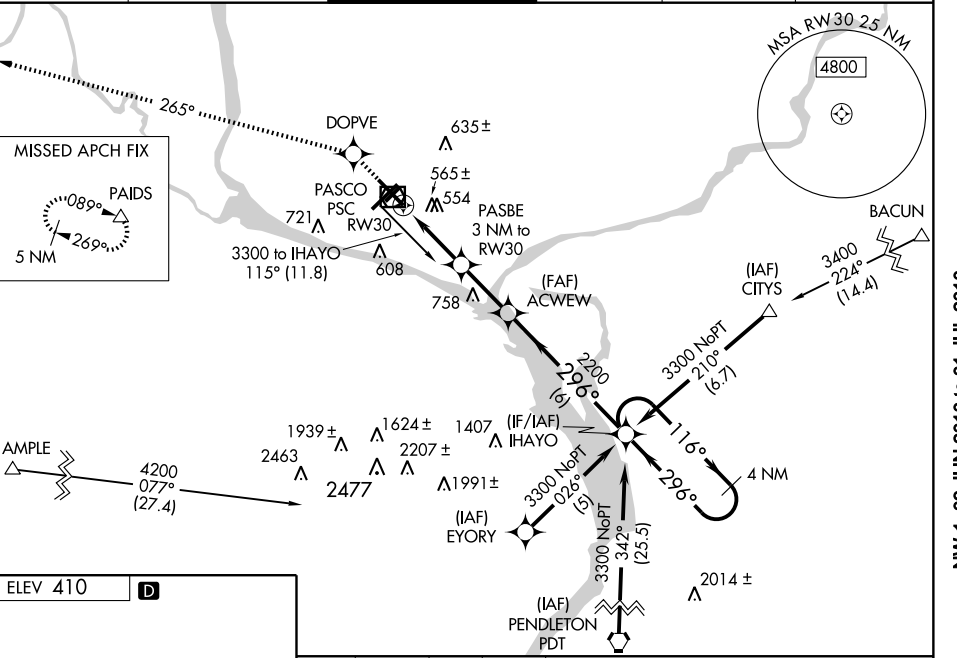
▼ When local altimeter setting not received, use Hermiston altimeter setting and increase all DAs/MDAs 100 feet and all visibilities ½ mile.

▲ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F).
VDP and Baro-VNAV NA when using Hermiston altimeter setting.
Inoperative table does not apply. Circling to Rwy 3R NA at night.
Visibility reduction by helicopters NA. DME/DME RNP-0.3 NA.

ODALS

MISSED APPROACH: Climb to 5200 direct DOPVE and via 265° track to PAIDS and hold, continue climb-in-hold to 5200.

ATIS ★ 125.65	CHINOOK APP CON★ 128.75 377.2	TRI-CITIES TOWER★ 135.3 (CTAF) 0 323.3	GND CON 121.8	CLNC DEL 120.0	UNICOM 122.95
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5200	DOPVE	265° track	PAIDS	4 NM Holding Pattern
*LNAV only				
PASBE 3 NM to RW30 * 1.3 NM to RW30				
RW30				
1400*				
1.3 NM 1.7 2.4 NM 6 NM				
CATEGORY				
LPV DA	777-1¼ 372 (400-1¼)			
LNAV/VNAV DA	913-1¾ 508 (600-1¾)			
LNAV MDA	880-1 475 (500-1)		880-1¼ 475 (500-1¼)	880-1½ 475 (500-1½)
CIRCLING	920-1 510 (600-1)		920-1½ 510 (600-1½)	1040-2 630 (700-2)

NW-1. 03 JUN 2010 to 01 JUL 2010

TRI-CITIES FOUR DEPARTURE

SL-474 (FAA)

PASCO/TRI-CITIES (PSC)
PASCO, WASHINGTON

ATIS 125.65
CLNC DEL
120.0
GND CON
121.8
TRI-CITIES TOWER
135.3 (CTAF) 323.3
CHINOOK DEP CON
128.75 377.2

WENATCHEE
111.0 EAT :--
Chan 47
N47°23.98'-W120°12.65'
L-13

EPHRATA
112.6 EPH :--
Chan 73
N47°22.68'-W119°25.44'
L-13, H-1

SPOKANE
115.5 GEG :--
Chan 102
N47°33.90'-W117°37.61'
L-13, H-1

MOSES LAKE
115.0 MWH :--
Chan 97
N47°12.65'-W119°19.01'
L-13, H-1

ELLENSBURG
117.9 ELN :--
Chan 126
N47°01.46'-W120°27.51'
L-13, H-1

PULLMAN
109.0 PUW :--
Chan 27
N46°40.46'-W117°13.41'
L-13

PASCO
108.4 PSC :--
Chan 21
N46°15.78'-W119°06.94'
L-13

YAKIMA
116.0 YKM :--
Chan 107
N46°34.22'-W120°26.68'
L-13, H-1

NEZ PERCE
108.2 MQG :--
Chan 19
N46°22.89'-W116°52.17'
L-13

KLUCKITAT
112.3 LTJ :--
Chan 70
N45°42.81'-W121°06.05'
L-13, H-1

WALLA WALLA
116.4 ALW :--
Chan 111
N46°05.22'-W118°17.55'
L-13

PENDLETON
114.7 PDT :--
Chan 94
N45°41.91'-W118°56.32'
L-13, H-1

NOTE: SID will not be assigned when Control Tower is closed.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

Fly runway heading, or ATC assigned heading, for vector to assigned route/fix. Maintain 10,000' or assigned lower altitude. Expect clearance to filed altitude 5 minutes after departure.

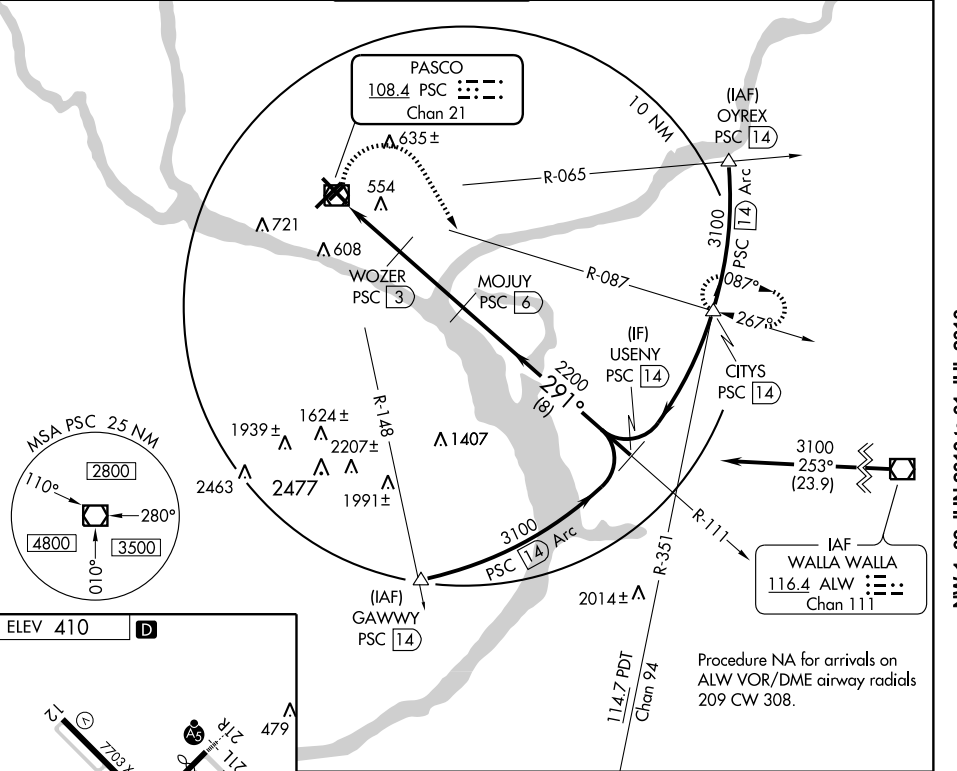
LOST COMMUNICATIONS: Climb runway heading to 3,000' then reverse course direct PSC VOR/DME to cross at or above MEA for route of flight.


⚠ Inoperative table does not apply to Cat C.
⚠ Visibility reduction by helicopters NA.
When local altimeter setting not received, use Hermiston altimeter setting and increase all MDA 100 feet, increase S-30 visibility Cat C ¼ mile, Cat D ½ mile and circling Cat D ¼ mile.

ODALS

MISSED APPROACH: Climbing right turn to 3200 via heading 130° and PSC R-087 to CITYS INT/PSC 14 DME and hold.

ATIS★ 125.65	CHINOOK APP CON★ 128.75 377.2	TRI-CITIES TOWER★ 135.3 (CTAF) 323.3	GND CON 121.8	CLNC DEL 120.0	UNICOM 122.95
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3200  130°	PSC R-087 108.4	CITYS △	USENY PSC 14	
	PSC 0.4	PSC 1.6	WOZER PSC 3	
		MOJUJ PSC 6		
		2.95° TCH 54		
		1260	2200	
		3100	Procedure Turn NA	
	1.1 NM	1.5 NM	3 NM	8 NM
CATEGORY	A	B	C	D
S-30	820-¾	415 (500-¾)	820-1 ¼	415 (500-1 ¼)
CIRCLING	860-1	450 (500-1)	900-1½ 490 (500-1½)	1040-2 630 (700-2)

VOR/DME PSC	APP CRS	Rwy Idg	7111
108.4	195°	TDZE	404
Chan 21		Apt Elev	410

VOR RWY 21R

PASCO/ TRI-CITIES (PSC)

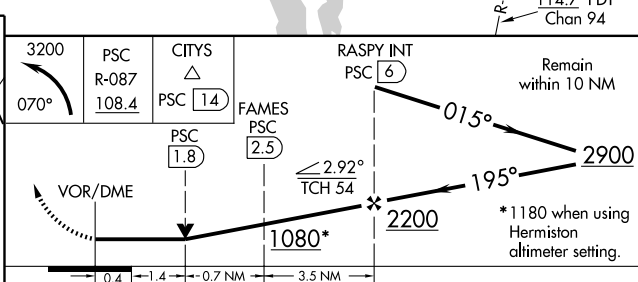
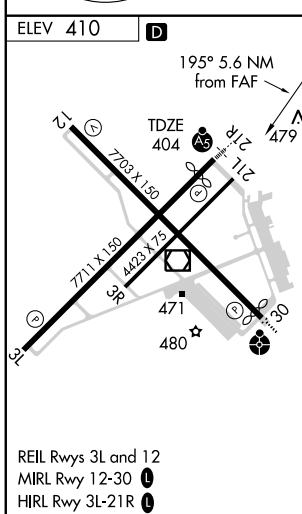
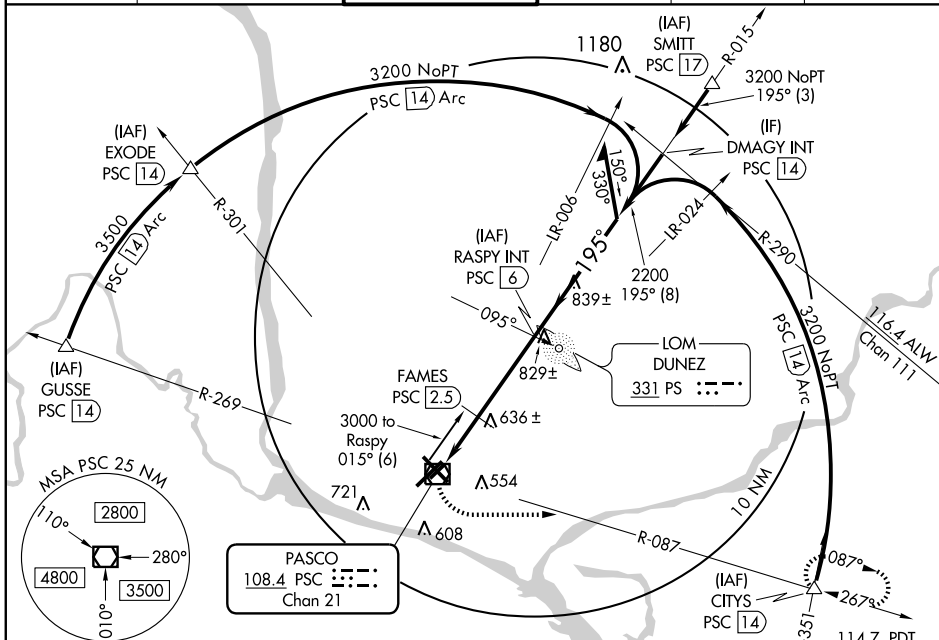
▲ If local altimeter setting not received, use Hermiston altimeter setting and increase all MDAs 100 feet.
 ▲ VDP NA when using Hermiston altimeter setting.
 ADF or DME required. Circling to Rwy 03R NA at night.

MALSR



MISSED APPROACH: Climbing left turn to 3200 via heading 070° and PSC VOR/DME R-087 to CITYS INT/PSC 14 DME and hold.

ATIS★ 125.65	CHINOOK APP CON★ 128.75 377.2	TRI-CITIES TOWER★ 135.3 (CTAF) 323.3	GND CON 121.8	CLNC DEL 120.0	UNICOM 122.95
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CATEGORY	A	B	C	D
S-21R	1080/24 676 (700-½)		1080-1½ 676 (700-1½)	1080-1¾ 676 (700-1¾)
CIRCLING	1080-1 670 (700-1)		1080-2 670 (700-2)	1080-2¼ 670 (700-2¼)
FAMES FIX MINIMUMS				
S-21R	900/24 496 (500-½)		900/40 496 (500-¾)	900/50 496 (500-1)
CIRCLING	920-1 510 (600-1)		920-1½ 510 (600-1½)	1040-2 630 (700-2)

ILS or LOC RWY 8

PORT ANGELES/ WILLIAM R. FAIRCHILD INTL (CLM)

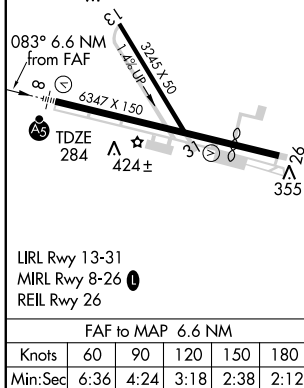
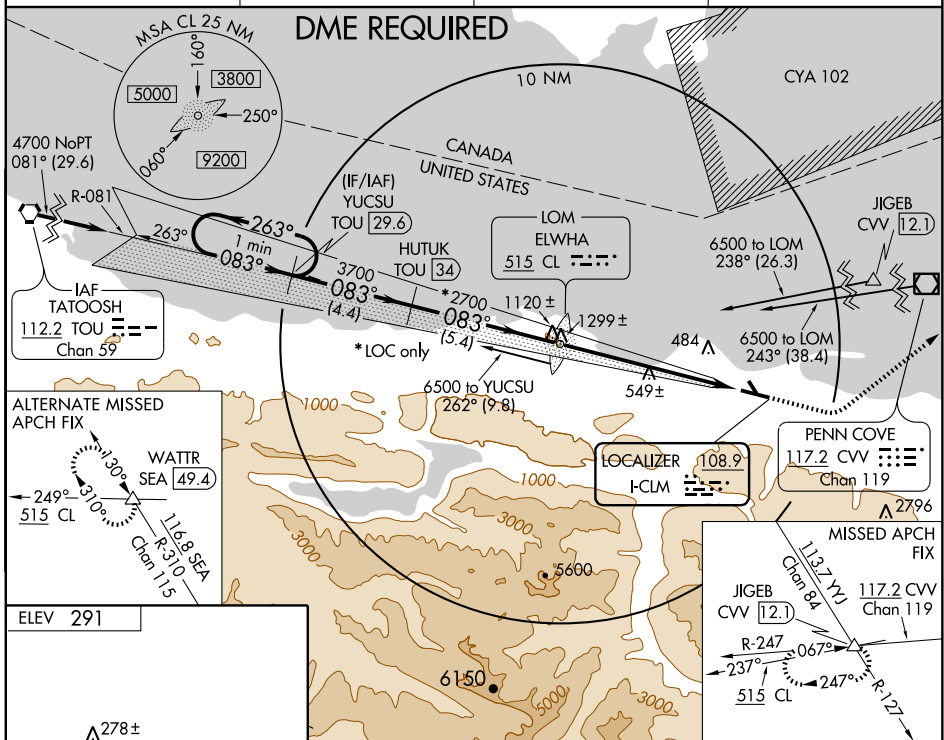
LOC I-CLM	APP CRS	Rwy Idg	6347
108.9	083°	TDZE	284
		Apt Elev	291

- ▼** Circling NA south of Rwy 8-26.
- ▲** DME required.
- DME from TOU VORTAC. Simultaneous reception of I-CLM and TOU DME required.
- If local altimeter setting not received, use Friday Harbor altimeter setting and increase all MDAs 100 feet. ILS procedure NA.



MISSED APPROACH: Climb to 1000 then climbing left turn to 5400 via heading 030° and CVV R-247 to JIGEB/CVV 12.1 DME and hold, continue climb-in-hold to 5400.

ASOS	WHIDBEY APP CON*	CLNC DEL	UNICOM
135.175	118.2 285.65	124.15	122.975 (CTAF) 0



One Minute Holding Pattern	YUCSU TOU 29.6	HUTUK TOU 34	1000	5400	CVV R-247 117.2	JIGEB
4700	263°	083°	LOM	030°		
GS 3.00% TCH 54			2486			
VGS and ILS glidepath not coincident.			3600			
	4.4 NM	5.4 NM	6.6 NM			
CATEGORY	A	B	C	D		
S-ILS 8		486-1/2	202 (200-1/2)			
S-LOC 8	840-1/2	556 (600-1/2)	840-1	840-1 1/4		
			556 (600-1)	556 (600-1 1/4)		
CIRCLING	840-1	549 (600-1)	840-1 1/2	860-2		
			549 (600-1 1/2)	569 (600-2)		

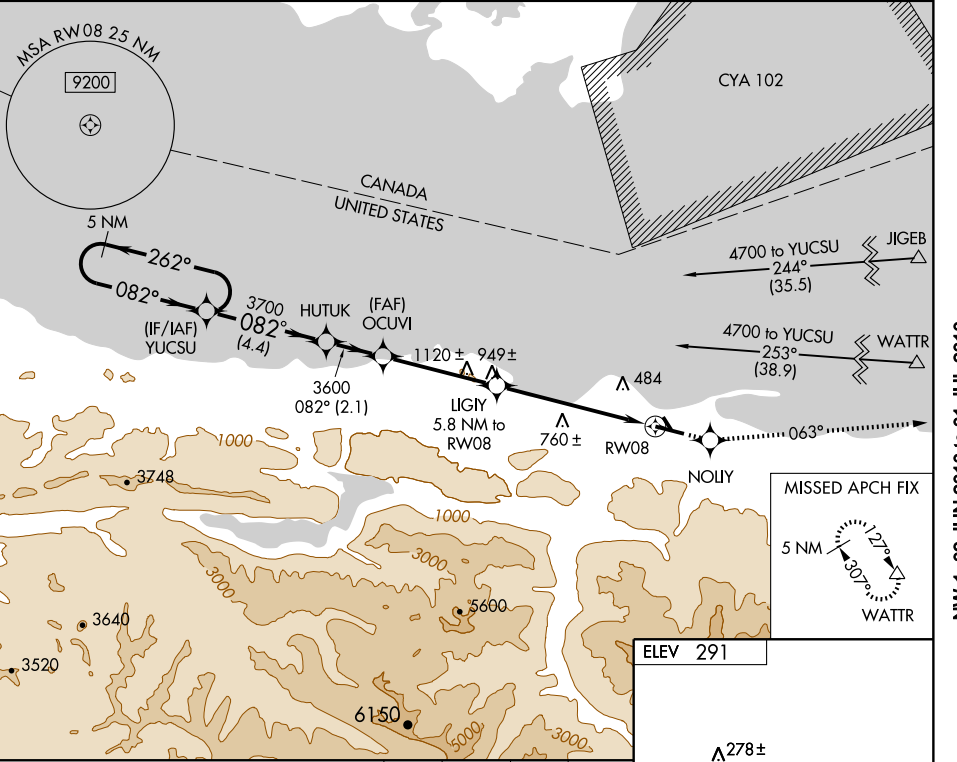
WAAS CH 77703 W08A	APP CRS 082°	Rwy Idg TDZE Apt Elev	6347 284 291
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⚠ Circling NA south of Rwy 8-26. DME/DME RNP- 0.3 NA.
⚠ If local altimeter setting not received, use Friday Harbor altimeter setting and increase all DAs/MDAs 100 feet. VDP NA when using Friday Harbor altimeter setting.

MALSR

MISSED APPROACH: Climb to 5400 direct NOLLY and via 063° track to WATTR and hold, continue climb-in-hold to 5400.

ASOS 135.175	WHIDBEY APP CON * 118.2 285.65	CLNC DEL 124.15	UNICOM 122.975 (CTAF) 1
-----------------	-----------------------------------	--------------------	-----------------------------------



5 NM Holding Pattern				
4700 ← 262° 082° →				
YUCSU HUTUK OCUVI				
3700 3600				
LIGY 5.8 NM to RW08 *2200				
*LNNAV only				
5400 NOLLY 063° track WATTR				
GS 3.00° TCH 54				
VGSI and RNAV glidepath not coincident.				
4.4 NM 2.1 4.2 NM 3 NM 2.8				
CATEGORY	A	B	C	D
LPV DA	596-1/2 312 (400-1/2)			
LNNAV MDA	1240-3/4 956 (1000-3/4)	1240-1 956 (1000-1)	1240-2 1/2 956 (1000-2 1/2)	
CIRCLING	1240-1 1/4 949 (1000-1 1/4)	1240-1 1/2 949 (1000-1 1/2)	1240-3 949 (1000-3)	

ELEV 291

LIRL Rwy 13-31

MIRL Rwy 8-26 **1**

REIL Rwy 26

NW-1, 03 JUN 2010 to 01 JUL 2010

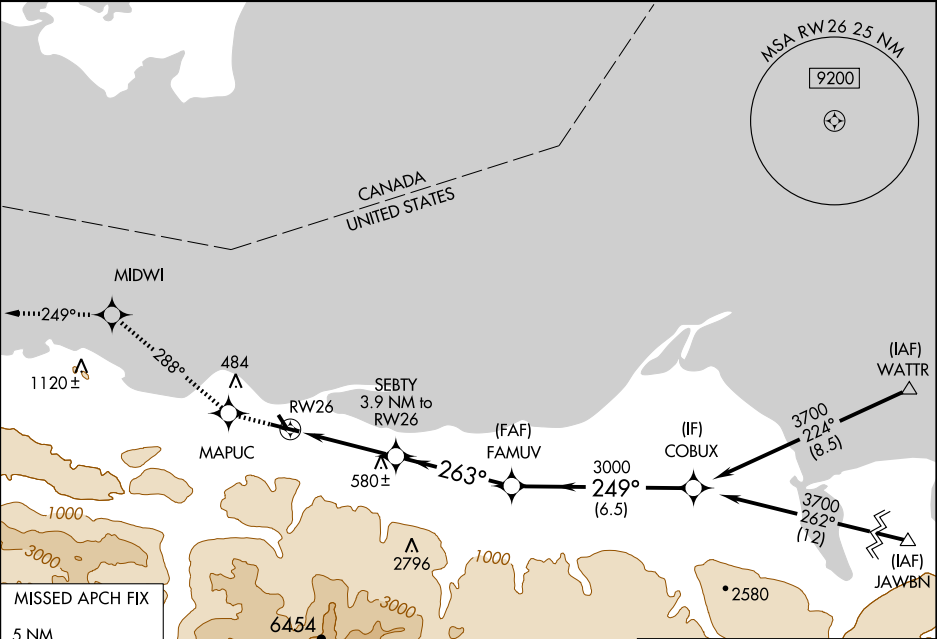
APP CRS	Rwy Idg	4993
263°	TDZE	282
	Apt Elev	291

RNAV (GPS) RWY 26

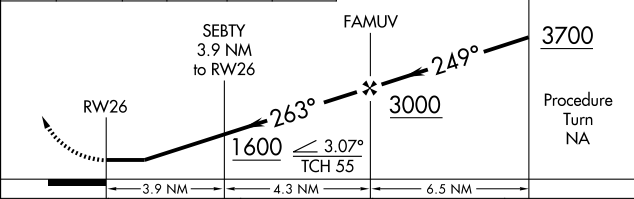
PORT ANGELES/ WILLIAM R. FAIRCHILD INTL (CLM)

<p>⚠ Circling NA south of Rwy 8-26. DME/DME RNP- 0.3 NA.</p> <p>⚠ Visibility reduction by helicopters NA. When local altimeter setting not received, use Friday Harbor altimeter setting; increase all MDA 100 feet and visibility Cats B/C/D ½ mile.</p>	<p>MISSED APPROACH: Climb to 5400 direct MAPUC and via track 288° to MIDWI and via track 249° to YUCSU and hold.</p>
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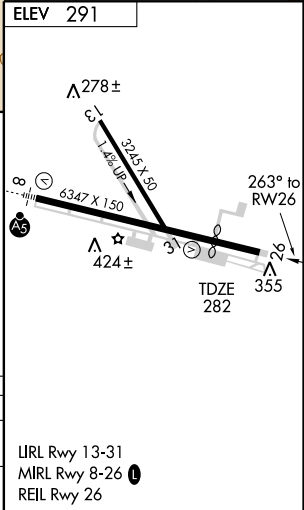
ASOS 135.175	WHIDBEY APP CON ★ 118.2 285.65	CLNC DEL 124.15	UNICOM 122.975 (CTAF) 1
-----------------	-----------------------------------	--------------------	-----------------------------------



MISSED APCH FIX	5400	MAPUC	trk 288°	MIDWI	trk 249°	YUCSU	VGSI and descent angles not coincident.
5 NM	↑	✧		✧		△	



CATEGORY	A	B	C	D
LNAV MDA	940-1	658 (700-1)	940-1¾ 658 (700-1¾)	940-2 658 (700-1)
CIRCLING	940-1	649 (700-1)	940-1¾ 649 (700-1¾)	940-2 649 (700-2)



WATTR FIVE DEPARTURE (OBSTACLE)

PORT ANGELES/ WILLIAM R. FAIRCHILD INTL (CLM)
SL-886 (FAA) PORT ANGELES, WASHINGTON

NAS WHIDBEY DEP CON

118.2 285.65
SEATTLE RADIO
122.6
CTAF 122.975

VICTORIA	
113.7 YYJ	⋮⋮⋮
Chan 84	
N48°43.62' - W123°29.06'	
L-1, H-1	

TAKE-OFF OBSTACLE NOTES

Rwy 13: Multiple trees and pole beginning 1299' from DER, 32' left of centerline, up to 100' AGL/520' MSL.
Sign 76' from DER, 230' left of centerline, 5' AGL/276' MSL.

Hangar 1550' from DER, 457' left of centerline, 49' AGL/320' MSL.

OL on airport beacon 2023' from DER, 829' left of centerline, 74' AGL/345' MSL.

Multiple trees and pole beginning 614' from DER, 11' right of centerline, up to 100' AGL/599' MSL.

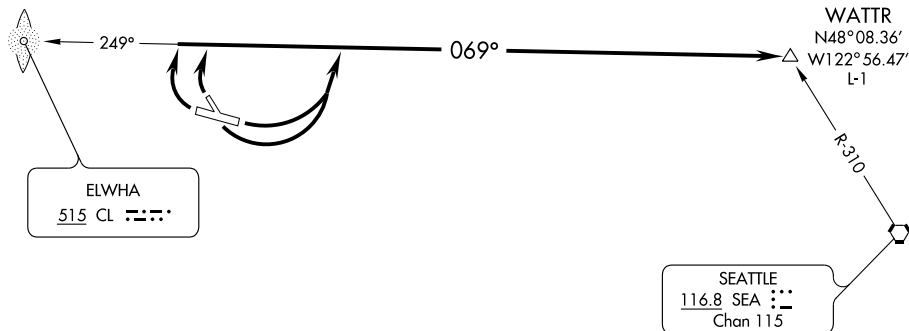
Rwy 26: Multiple trees beginning 2940' from DER, 747' left of centerline, up to 95' AGL/378' MSL.

Rwy 31: Multiple trees beginning 470' from DER, 39' left of centerline, up to 71' AGL/298' MSL.

Multiple trees beginning 640' from DER, 112' right of centerline, up to 63' AGL/290' MSL.

Rwy 8: Multiple trees and poles beginning 130' from DER, 261' left of centerline, up to 124' AGL/415' MSL.
Multiple trees and poles beginning 923' from DER, 111' right of centerline, up to 232' AGL/479' MSL.

Hangar 212' from DER, 523' right of centerline, 19' AGL/310' MSL.



TAKE-OFF MINIMUMS

Rwys 26, 31: Standard.

Rwy 13: Standard with minimum climb of 454' per NM to 1100.

Rwy 8: 300-1.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 8 and 13: Climbing left turn, thence....

TAKE-OFF RUNWAYS 26 and 31: Climbing right turn, thence....

....on 069° bearing from CL LOM to WATTR INT, maintain 5400.

NDB K	APP CRS	Rwy Idg	N/A
317	237°	TDZE	N/A
		Apt Elev	13

COPTER NDB or GPS 237°
PORT ANGELES CGAS (NOW)

T
A NA Prior permission required.

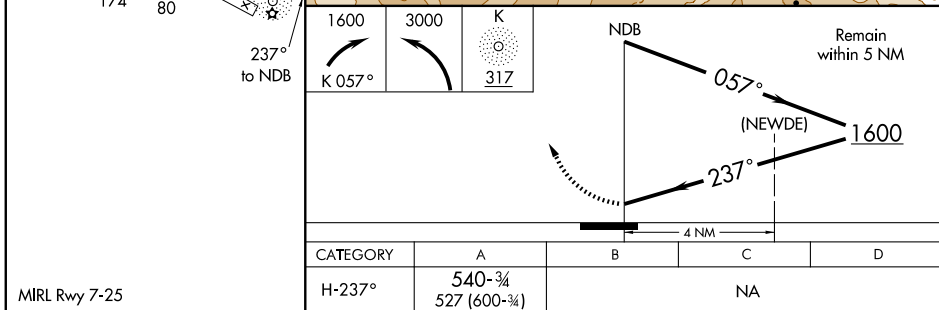
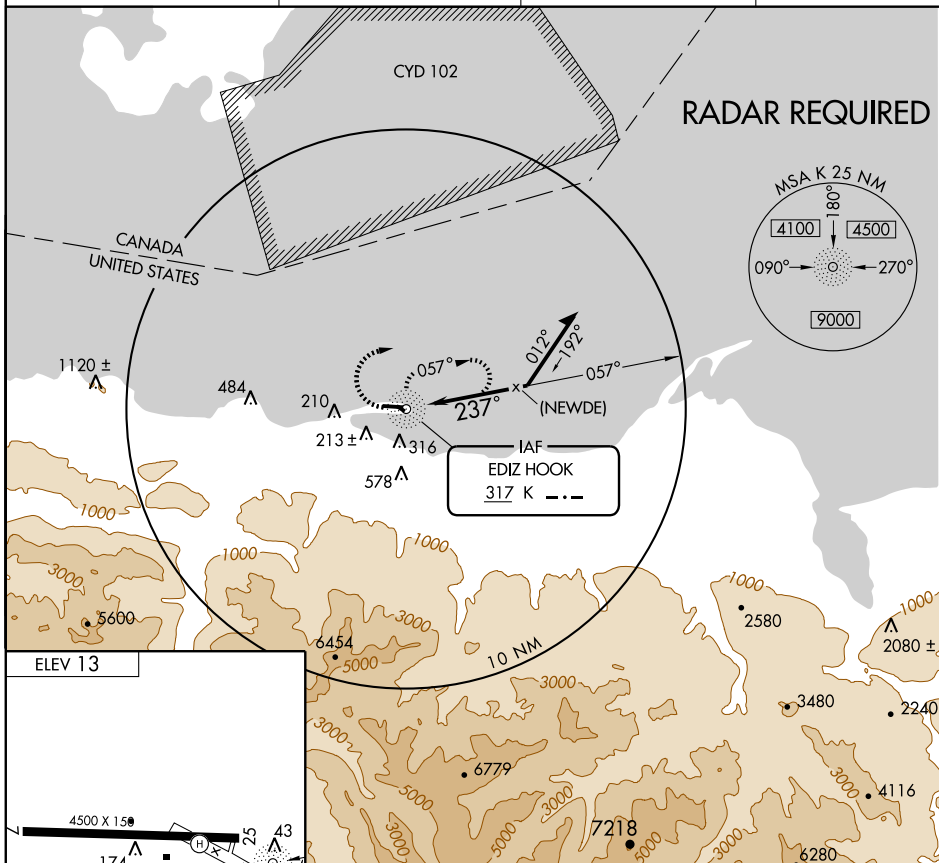
MISSED APPROACH: Climbing right turn to 1 600 via bearing 057° from Ediz Hook NDB, then climbing left turn to 3000 direct Ediz Hook NDB and hold.

WHIDBEY APP CON
118.2 285.65

PORT ANGELES AIR
127.7 345.0

CLNC DEL
124.15

UNICOM
122.975 (CTAF)

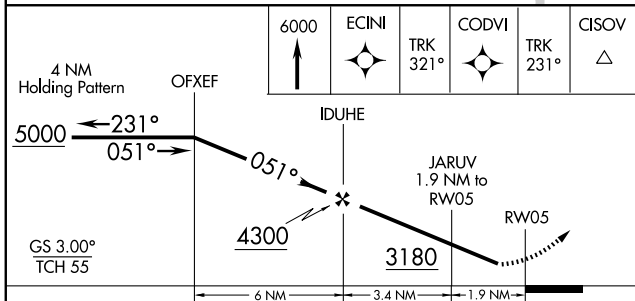
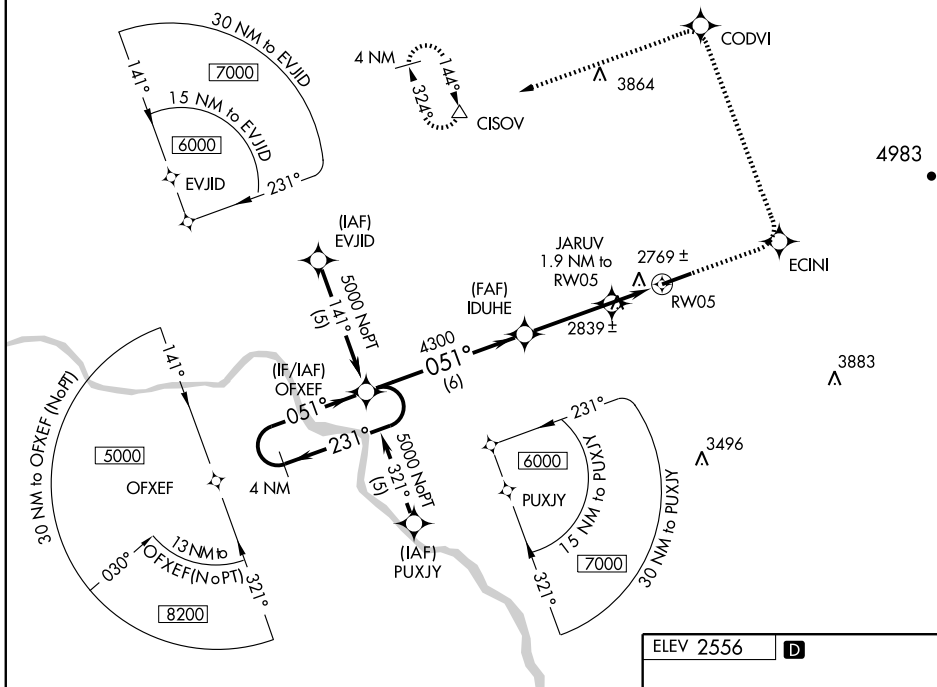


RNAV (GPS) RWY 5
PULLMAN/MOSCOW RGNL (PUW)

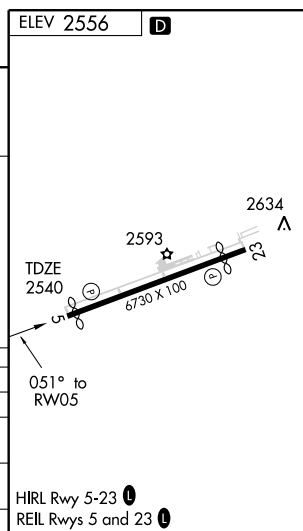
MISSED APPROACH: Climb to 6000 direct ECINI, and via 321° track to CODVI and via 231° track to CISOV and hold.

SEATTLE CENTER
123.95 282.3

UNICOM
122.8 (CTAF) **L**



CATEGORY	A	B	C	D
LPV DA		2981-1½	441 (500-1½)	
LNAV/ VNAV DA		3177-2¼	637 (700-2¼)	
LNAV MDA	3100-1	560 (600-1)	3100-1½ 560 (600-1½)	3100-1¾ 560 (600-1¾)
CIRCLING		3220-2¼	664 (700-2¼)	

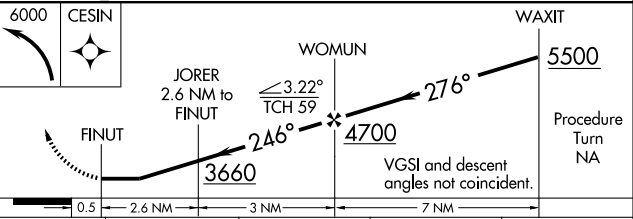
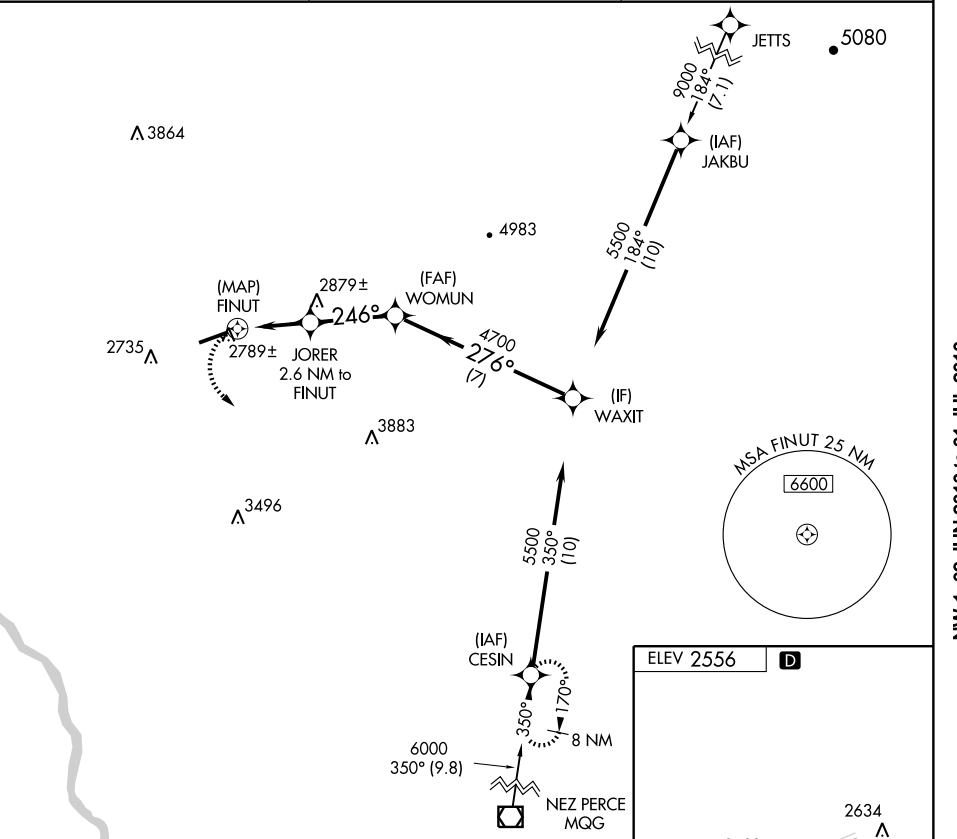


DME/DME RNP-0.3 NA.

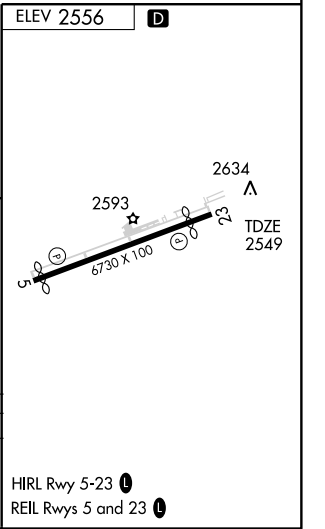
Visibility reduction by helicopters NA.

MISSED APPROACH: Climbing left turn to 6000 direct CESIN and hold.

ASOS 135.675	SEATTLE CENTER 123.95 282.3	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
LNAV MDA	3180-1	631 (700-1)	3180-1 ³ / ₄ 631 (700-1 ³ / ₄)	3180-2 631 (700-2)
CIRCLING	3220-1	664 (700-1)	3220-1 ³ / ₄ 664 (700-1 ³ / ₄)	3220-2 664 (700-2)



NW-1. 03 JUN 2010 to 01 JUL 2010

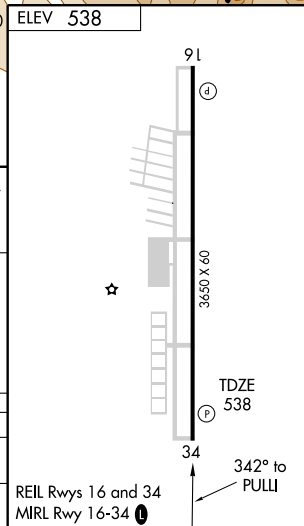
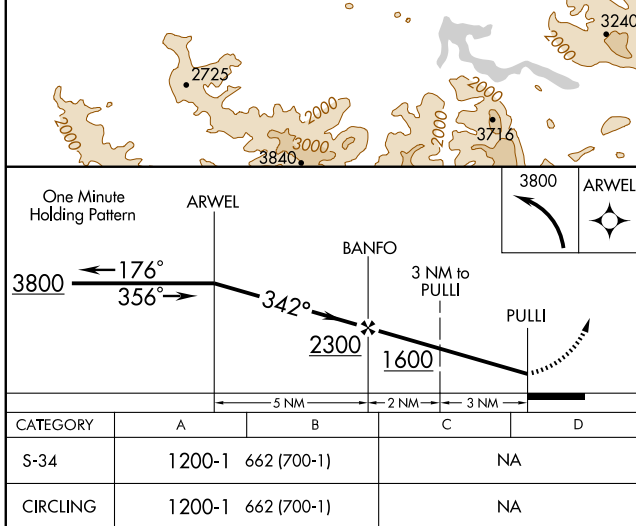
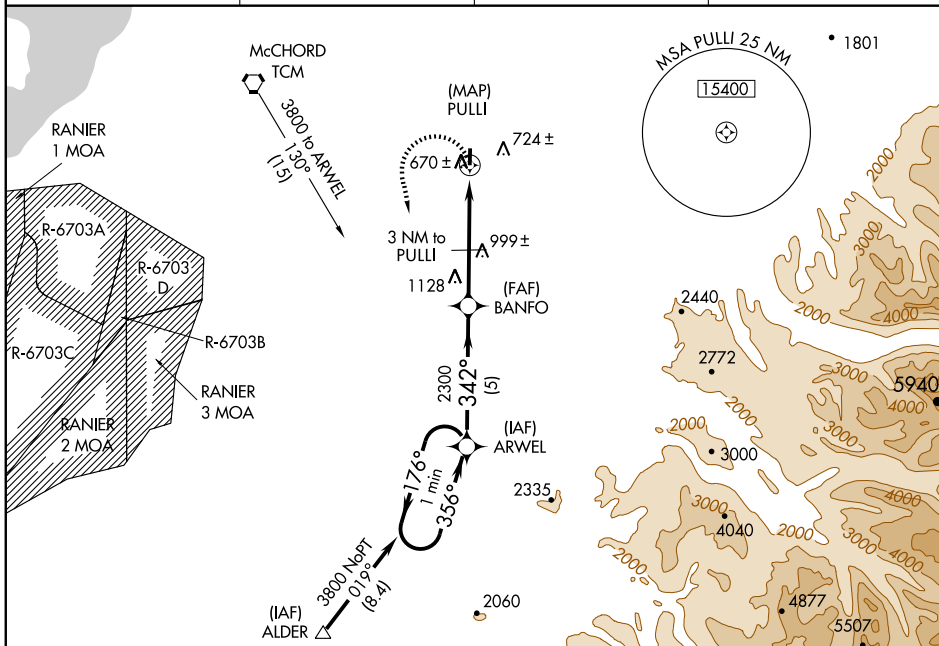
APP CRS
342°Rwy Idg **3650**
TDZE **538**
Apt Elev **538**

GPS RWY 34

PUYALLUP/PIERCE COUNTY-THUN FIELD (PLU)



NA

MISSED APPROACH: Climbing left turn to 3800 direct ARWEL
WP and hold.AWOS-3
128.575SEATTLE APP CON
126.5 377.15CLNC DEL
121.85UNICOM
122.7 (CTAF) **0**

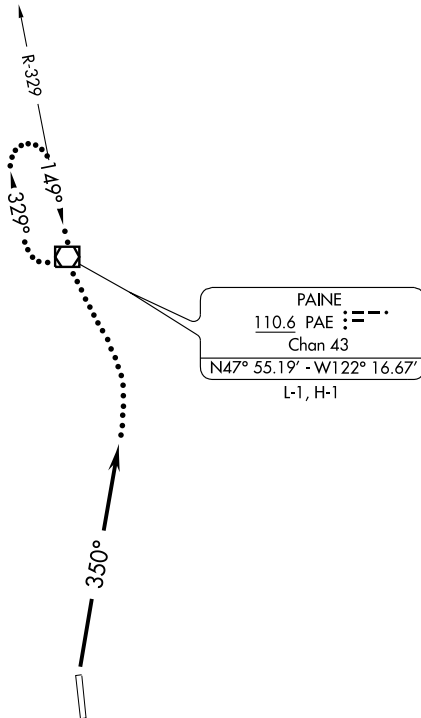
NW-1. 03 JUN 2010 to 01 JUL 2010

BELLEVUE TWO DEPARTURE

SL-5396 (FAA)

RENTON MUNI (RNT)
RENTON, WASHINGTON

ATIS 126.95
GND CON
121.6 256.9
RENTON TOWER ★
124.7 (CTAF) 256.9
SEATTLE DEP CON
119.2 284.7



NOTE: RADAR required.

TAKE-OFF MINIMUMS

Rwy 16: NA- ATC.

Rwy 34: Standard with minimum climb of 315' per NM to 800.

TAKE-OFF OBSTACLE NOTES

Rwy 34: Trees and terrain beginning 1.6 NM from DER, 104' left of centerline, up to 100' AGL/485' MSL, wood piling, trees and terrain beginning 75' from DER, 7' right of centerline, up to 100' AGL/426' MSL.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34: Climb heading 350°, maintain 3000, expect radar vectors, expect filed altitude within 5 minutes after departure.

LOST COMMUNICATIONS: If no contact with Seattle Departure Control within 3 minutes after departure, climbing left turn direct PAE VOR/DME, continue climb-in PAE VOR/DME holding pattern to cross PAE VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

ATIS 126.95

GND CON

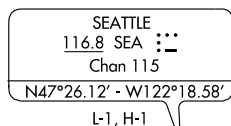
121.6 256.9

RENTON TOWER ★

124.7 (CTAF) 256.9

SEATTLE DEP CON

119.2 284.7



NOTE: RADAR required.

TAKE-OFF MINIMUMS

Rwy 16: Standard with a minimum climb of 405' per NM to 800.

Rwy 34: NA- ATC.

TAKE-OFF OBSTACLE NOTES

Rwy 16: Trees, towers, lights and blast shield beginning 186' from DER, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and signs beginning 40' from DER, 54' right of centerline, up to 100' AGL/297' MSL.

NOTE: Chart not to scale.



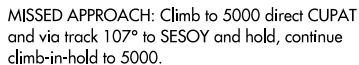
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb heading 150° to 1000, then climbing left turn heading 130°, expect radar vectors, maintain 3000, expect filed altitude within 5 minutes after departure.

LOST COMMUNICATIONS: If no contact with Seattle Departure Control within 3 minutes after departure, climbing right turn direct SEA VORTAC, continue climb-in SEA VORTAC holding pattern to cross SEA VORTAC at or above MEA/MCA for direction of flight before proceeding on course.

RNAV (GPS) Y RWY 16
RENTON MUNI (RNT)

RENTON MUNI (RNT)

UNICOM
122.95

(IAF) PAINE PAE

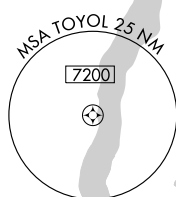
2000 158° (14.6)

(IF) LUTSY

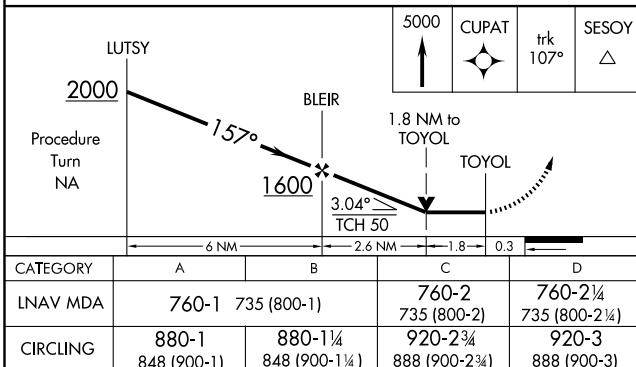
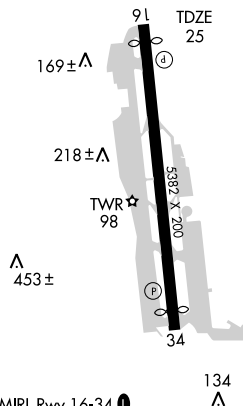
2000 253° (6)

(IAF) HAVHO

RADAR required for transition to HAVHO.



D



NW-1. 03 JUN 2010 to 01 JUL 2010

▼

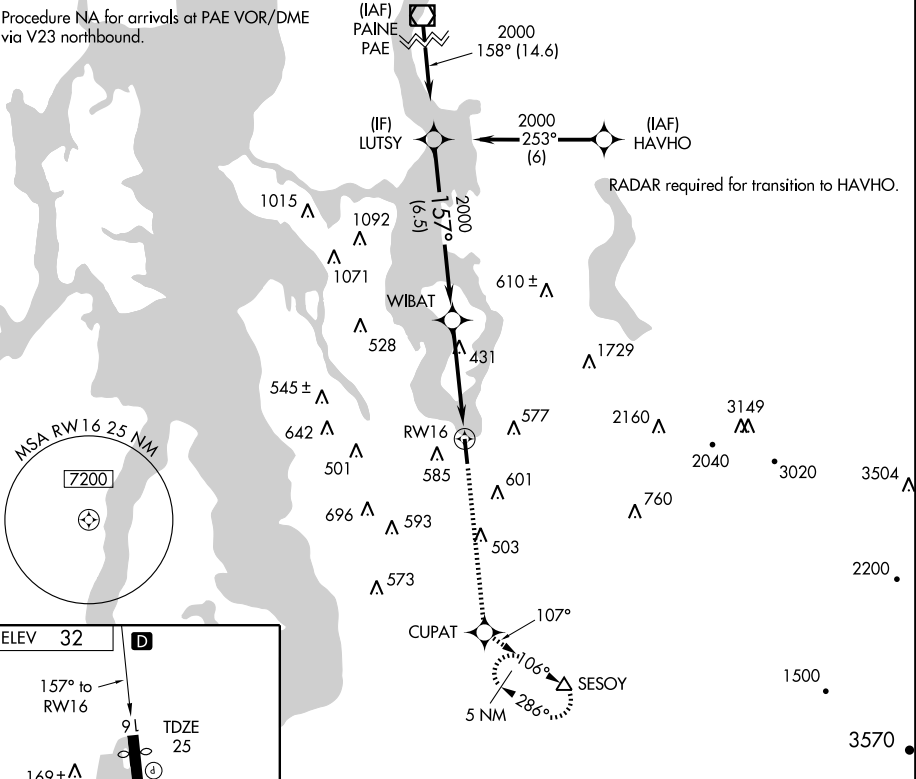
⚠

Circling NA W of Rwy 16-34. DME/DME RNP- 0.3 NA. When local altimeter setting not received, use Seattle-Tacoma Intl altimeter setting. Circling requires descent on GS to CMDA.

MISSED APPROACH: Climb to 5000 direct CUPAT and via track 107° to SESOY and hold, continue climb-in-hold to 5000.

ATIS 126.95	SEATTLE APP CON 119.2 284.7	RENTON TOWER★ 124.7 (CTAF) 256.9	GND CON 121.6 256.9	UNICOM 122.95
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Procedure NA for arrivals at PAE VOR/DME via V23 northbound.



VGSI and RNAV glidepath not coincident.			
<div><div>5000</div><div>CUPAT</div><div>trk 107°</div><div>SESOY</div></div>			
<div><div>Procedure Turn NA</div><div>LUTSY</div><div>WIBAT</div><div>2000</div><div>2000</div><div>157°</div><div>2000</div><div>6.5 NM</div><div>4.3 NM</div><div>RWY 16</div></div>			
<div><div>GS 4.20°</div><div>TCH 50</div></div>			
CATEGORY	A	B	C
LPV DA	542-1¼	517 (600-1¼)	NA
CIRCLING	880-1¼	848 (900-1¼)	NA

NW-1, 03 JUN 2010 to 01 JUL 2010

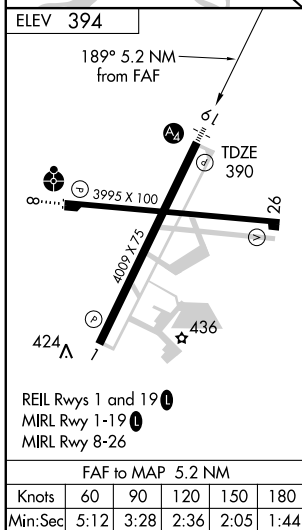
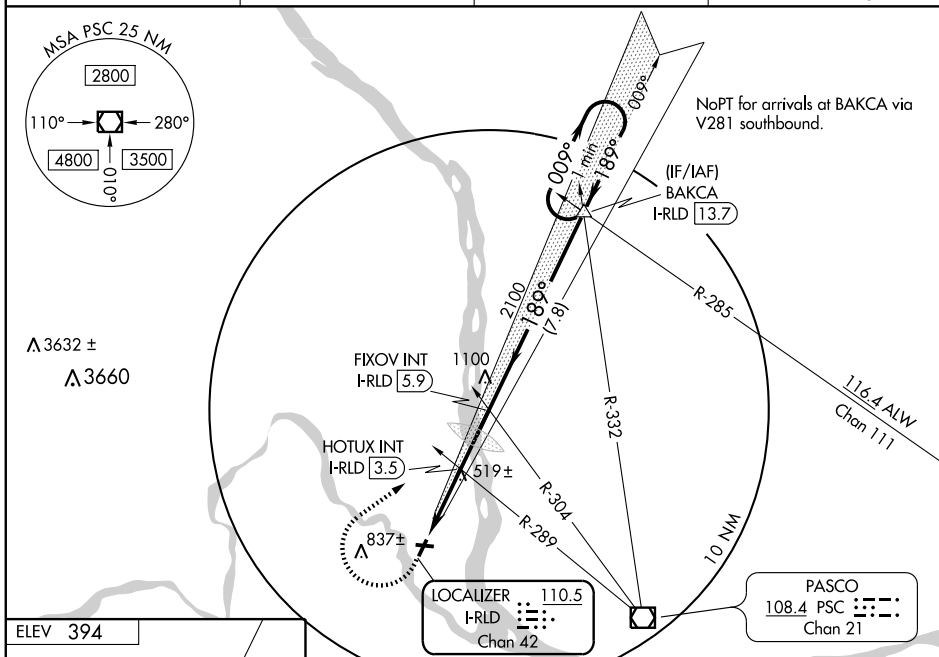
LOC/DME I-RLD 110.5 Chan 42	APP CRS 189°	Rwy Idg TDZE Apt Elev	4009 390 394
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LOC RWY 19

RICHLAND (RLD)

<p>NA</p> <p>Visibility reduction by helicopters NA. VDP NA when using Pasco altimeter setting. When local altimeter setting not received, use Pasco altimeter setting and increase all MDA 40 feet. Inoperative table does not apply to S-19 all Cats, and HOTUX fix minimums S-19 Cat C.</p>	<p>MALS</p> <p></p>	<p>MISSED APPROACH: Climbing right turn to 4000 via heading 038° and I-RLD NE course to BAKCA INT/I-RLD 13.7 DME and hold.</p>
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AWOS-3 132.675	CHINOOK APP CON ★ 128.75 377.2	CLNC DEL 122.4	UNICOM 122.7 (CTAF)
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	4000	I-RLD NE Crs	BAKCA	BAKCA I-RLD 13.7	One Minute Holding Pattern
	038°				
		HOTUX INT I-RLD 3.5	FIXOV INT I-RLD 5.9		
		I-RLD 0.7	I-RLD 1.9	3.05° TCH 45	
		1.2 NM	1.6 NM	2.4 NM	7.8 NM
CATEGORY	A	B	C	D	
S-19	1320-1¼ 930 (1000-1¼)		1320-2¾ 930 (1000-2¾)	1320-3 930 (1000-3)	
CIRCLING	1320-1¼ 926 (1000-1¼)		1320-2¾ 926 (1000-2¾)	1320-3 926 (1000-3)	
HOTUX FIX MINIMUMS					
S-19	800-¾ 410 (500-¾)		800-1¼ 410 (500-1¼)	1100-2¼ 710 (800-2¼)	
CIRCLING	980-1 586 (600-1)	1000-1 606 (700-1)	1000-1¾ 606 (700-1¾)	1140-2½ 746 (800-2½)	

DME/DME-RNP-0.3 NA.
 Inoperative table does not apply to Cat. C.

MALS

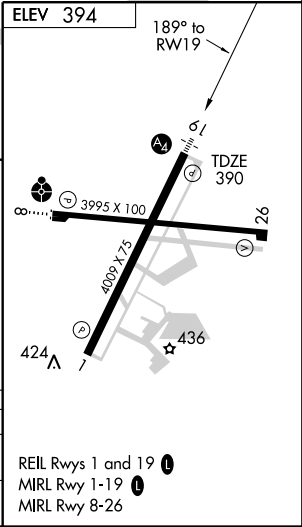
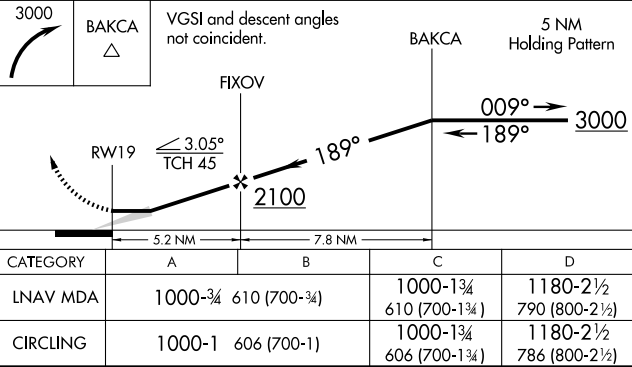
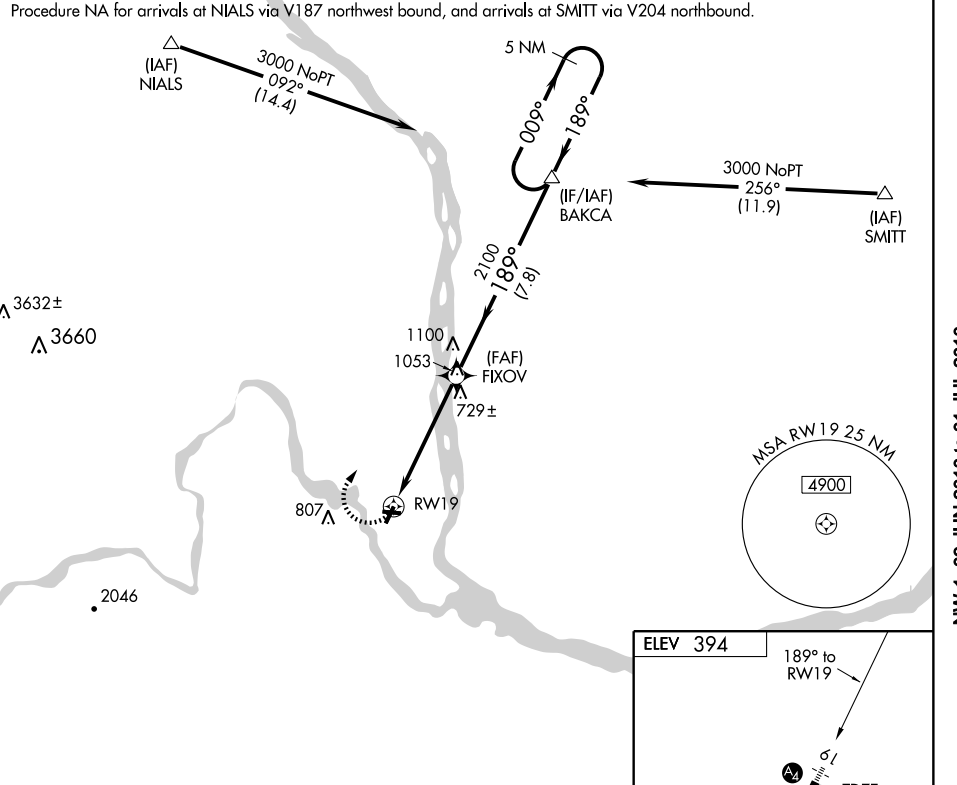
MISSED APPROACH: Climbing right turn to 3000 direct BAKCA and hold.

AWOS-3
 132.675

CHINOOK APP CON*
 128.75 377.2

CLNC DEL
 122.4

UNICOM
 122.7 (CTAF)



NW-1. 03 JUN 2010 to 01 JUL 2010

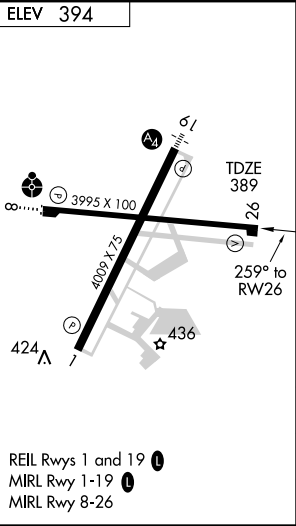
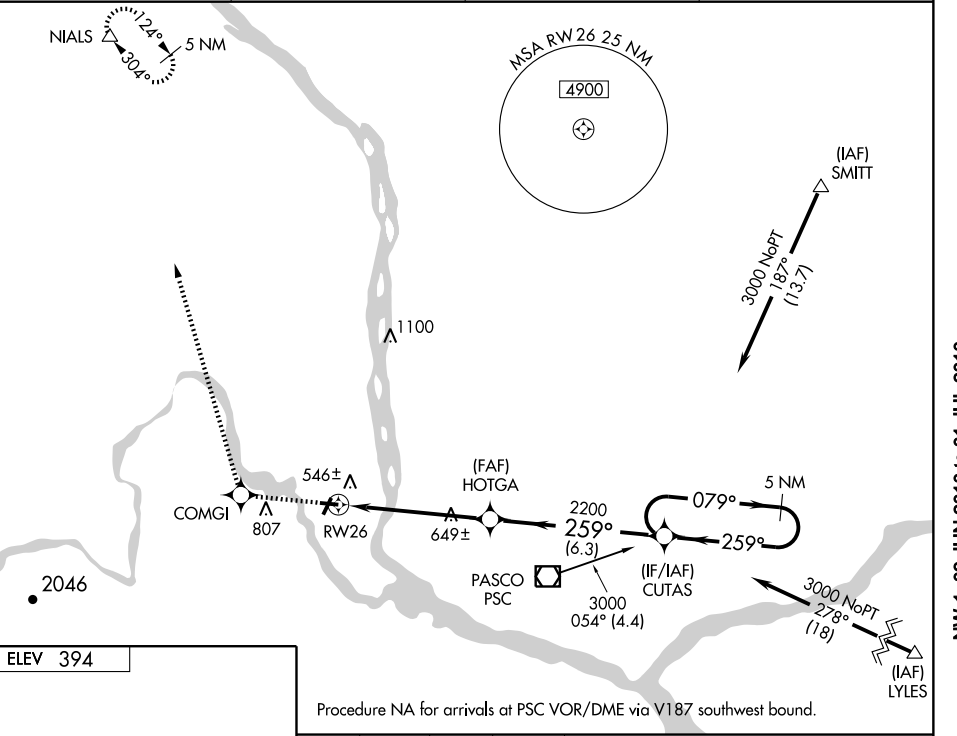
⚠

⚠

DME/DME RNP-0.3 NA. Baro-VNAV NA.

MISSED APPROACH: Climb to 3500 direct COMGI and via 327° track to NIALS and hold.

AWOS-3 132.675	CHINOOK APP CON ★ 128.75 377.2	CLNC DEL 122.4	UNICOM 122.7 (CTAF) 0
--------------------------	--	--------------------------	--



Procedure NA for arrivals at PSC VOR/DME via V187 southwest bound.

3500	COMGI	327° track	NIALS	CUTAS	5 NM Holding Pattern
↑	✧		△		
CATEGORY	A	B	C	D	
LPV DA	676-1 287 (300-1)				
LNAV/VNAV DA	945-2 556 (600-2)				
LNAV MDA	920-1 531 (600-1)		920-1½ 531 (600-1½)	920-1¾ 531 (600-1¾)	
CIRCLING	1000-2 606 (700-2)			1140-2½ 746 (800-2½)	

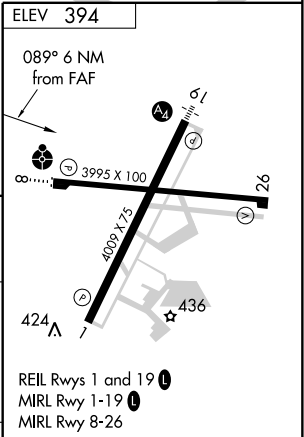
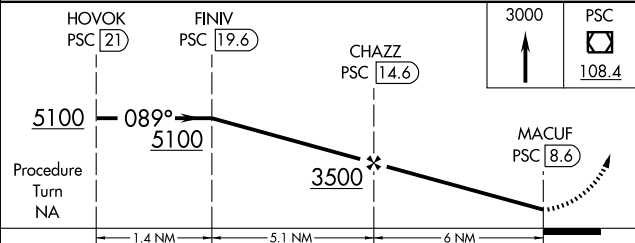
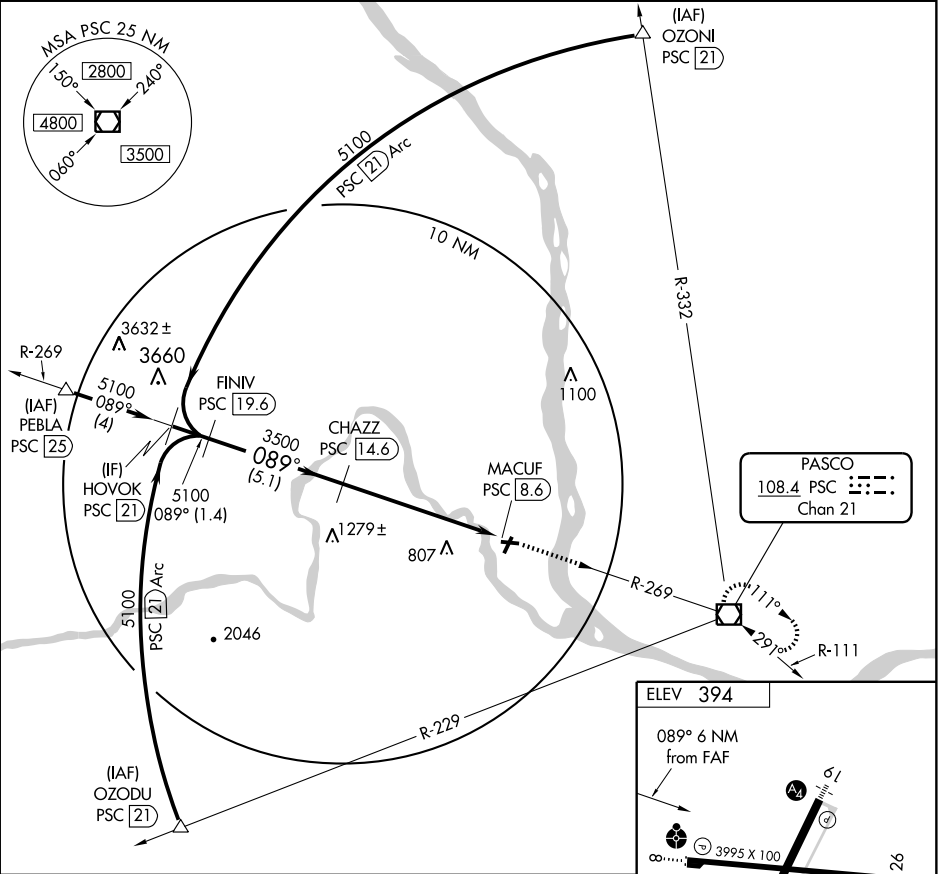
NW-1, 03 JUN 2010 to 01 JUL 2010

VOR/DME-A
RICHLAND (RLD)

VOR/DME PSC 108.4 Chan 21	APP CRS 089°	Rwy Idg TDZE Apt Elev	N/A N/A 394
---	------------------------	-----------------------------	--

MISSED APPROACH: Climb to 3000 direct PSC VOR/DME and hold.

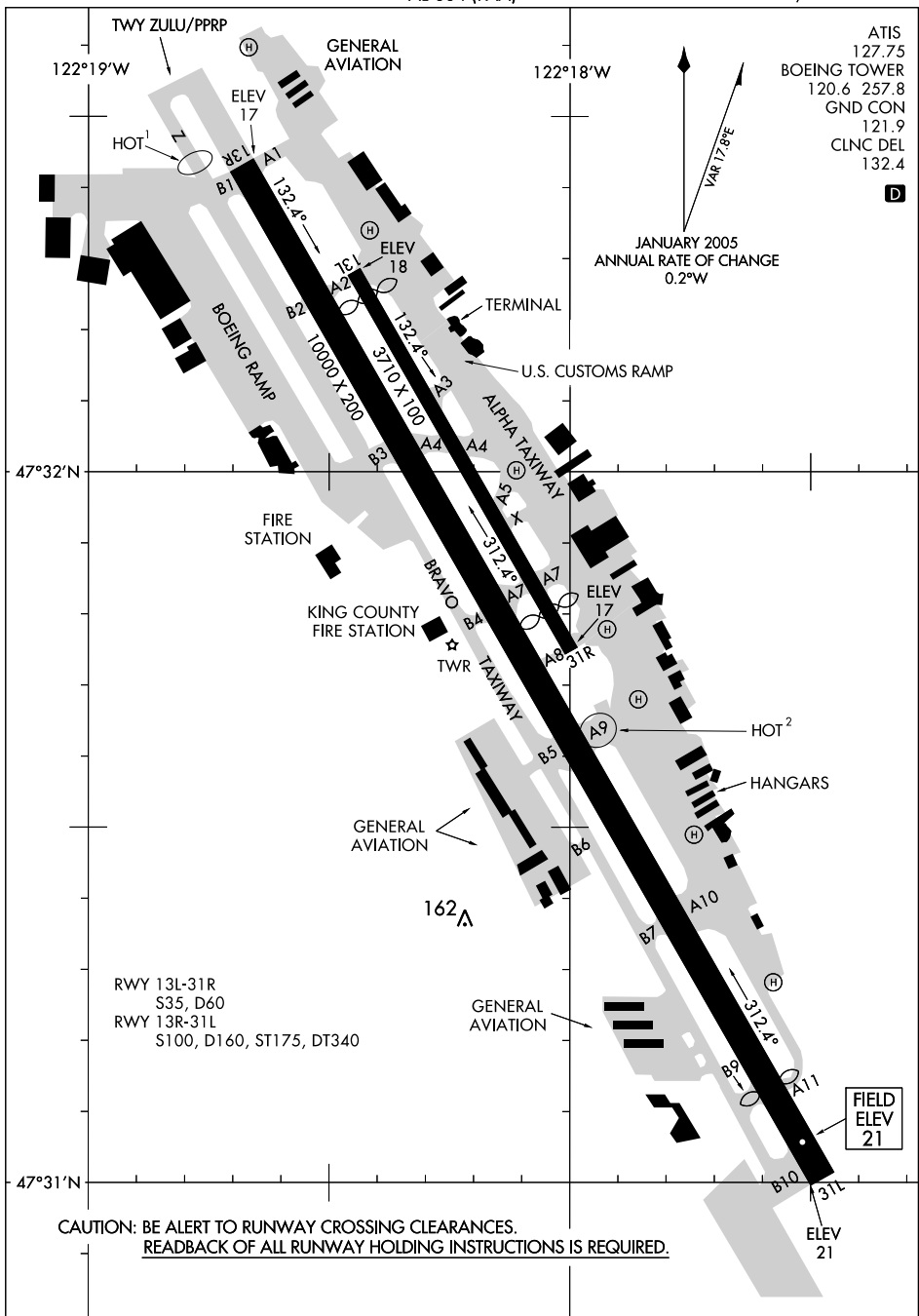
AWOS-3 132.675	CHINOOK APP CON ★ 128.75 377.2	CLNC DEL 122.4	UNICOM 122.7 (CTAF) 0
--------------------------	--	--------------------------	---------------------------------

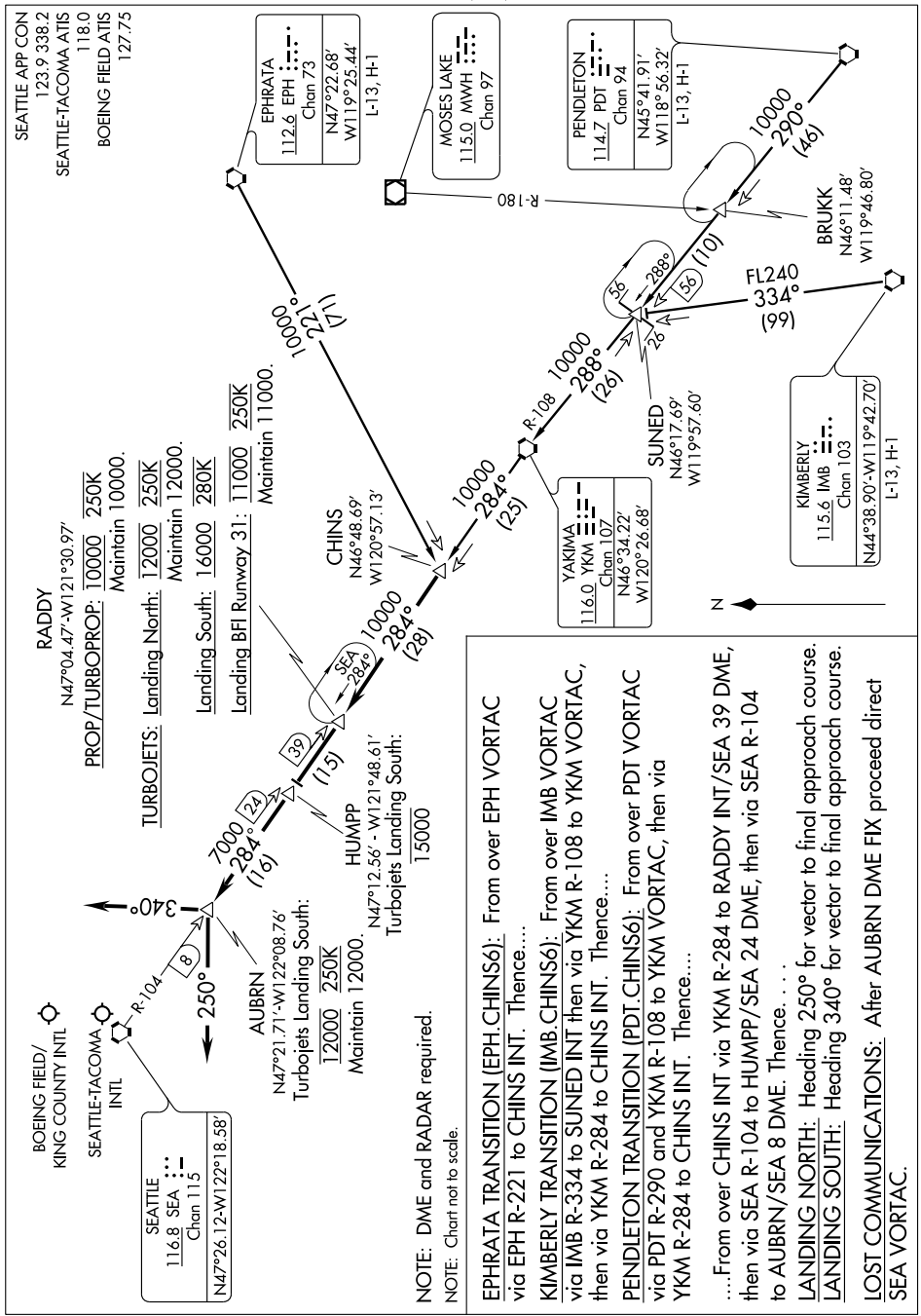


CATEGORY	A	B	C	D	Knots	60	90	120	150	180
CIRCLING	1280-1¼	886 (900-1¼)	1280-2¾ 886 (900-2¾)	1280-3 886 (900-3)	Min:Sec					

AIRPORT DIAGRAM

SEATTLE/FIELD COUNTY/KING COUNTY INTL (BFI)
AL-384 (FAA) SEATTLE, WASHINGTON





SEATTLE APP CON

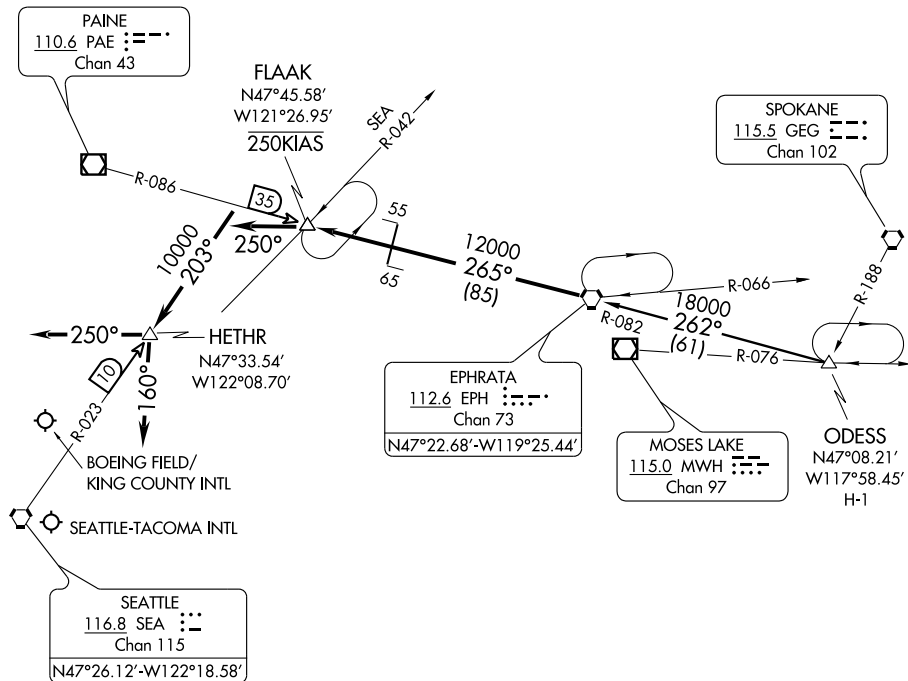
123.9 338.2

SEATTLE-TACOMA ATIS

118.0

BOEING FIELD ATIS

127.75



NOTE: DME and RADAR required.

ODESS TRANSITION (ODESS.EPH6): From over ODESS INT via EPH R-082 to EPH VORTAC. Thence....

....From over EPH VORTAC via EPH R-265 and PAE R-086 to FLAAK INT. Then via heading 250° to intercept the SEA R-023, then via SEA R-023 to HETHR DME Fix, thence....

LANDING NORTH: Heading 160° for vectors to final approach course;

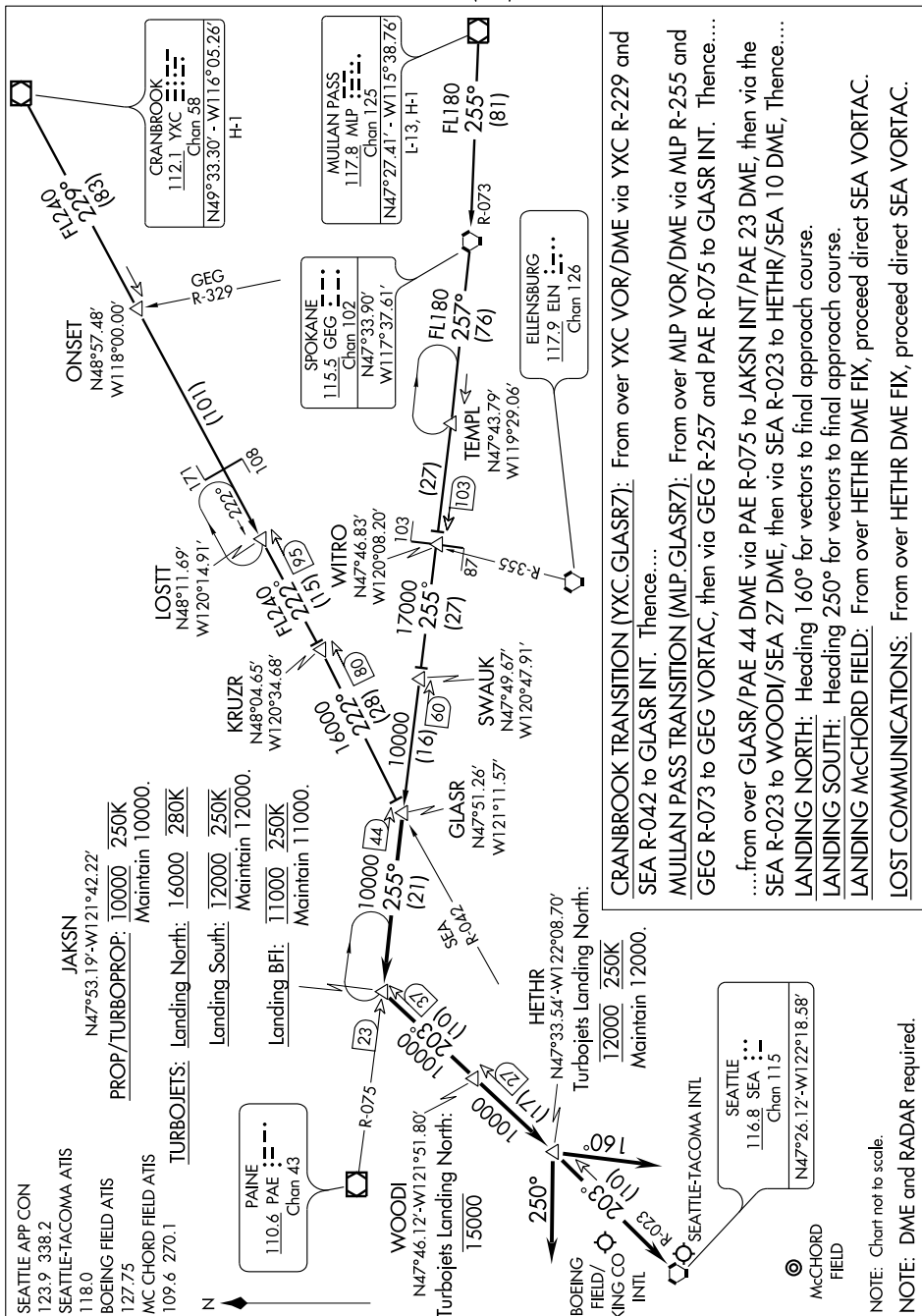
LANDING SOUTH: Heading 250° for vectors to final approach course.

LOST COMMUNICATIONS: From over HETHR DME proceed direct SEA VORTAC.

GLASR SEVEN ARRIVAL

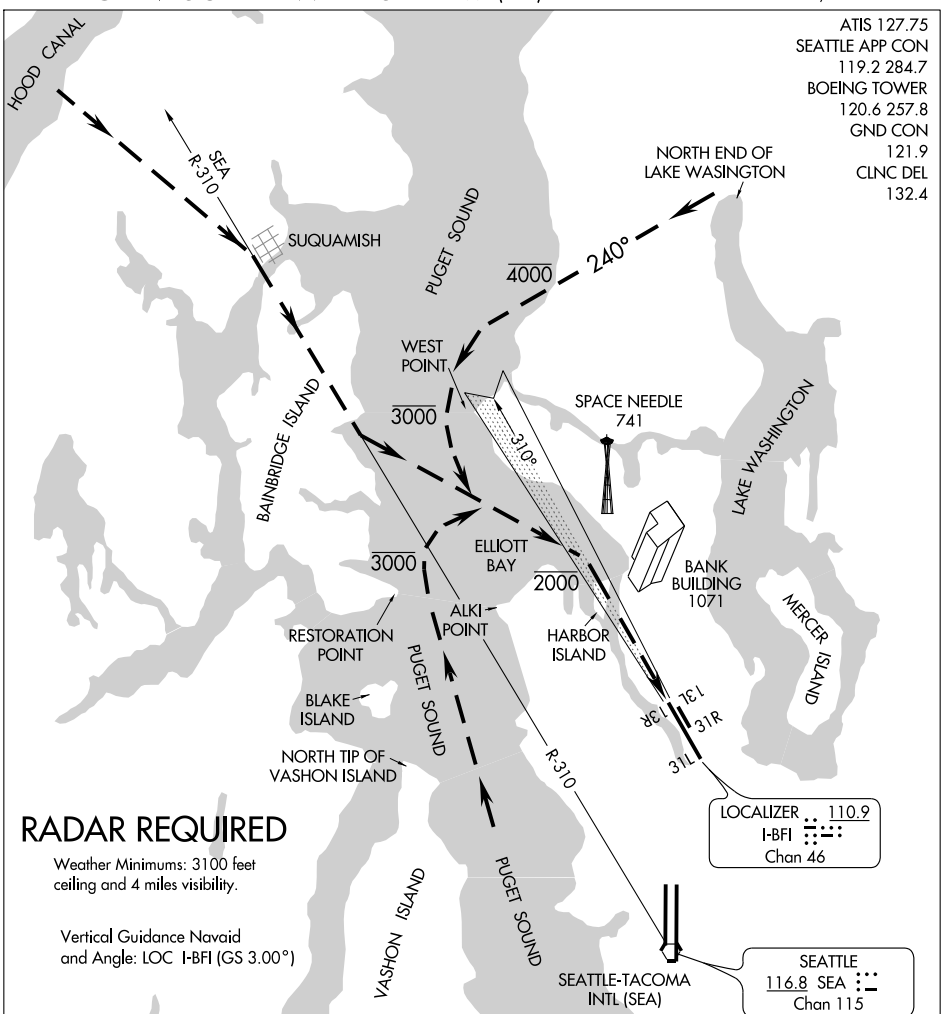
ST-582 (FAA)

SEATTLE, WASHINGTON



HARBOR VISUAL RWY 13R

SEATTLE / BOEING FIELD/KING COUNTY INTL (BFI)
AL-384 (FAA) SEATTLE, WASHINGTON



RADAR REQUIRED

Weather Minimums: 3100 feet ceiling and 4 miles visibility.

Vertical Guidance Navaid and Angle: LOC I-BFI (GS 3.00°)

NM	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23
----	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----

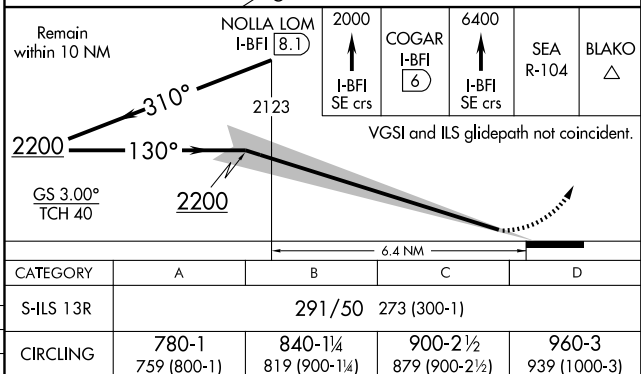
HARBOR VISUAL APPROACH RWY 13R

Expect radar vectors from the Northwest, over the Hood Canal on the SEA R-310; from the North and Northeast, to the north end of Lake Washington; from the Southwest, South and Southeast, to Puget Sound abeam the north tip of Vashon Island. When cleared for the Harbor Visual Approach Runway 13R, proceed via the depicted routes over the middle of Puget Sound and Elliott Bay to Harbor Island and complete a straight in visual approach to Boeing Field/King County Intl Airport (BFI). Adherence to the recommended altitudes is strongly recommended to reduce the incidence of TCAS alarms. Visual approaches to Seattle-Tacoma Intl Airport (SEA) may be conducted simultaneously through Elliott Bay. It is essential that all aircraft remain in the center of Elliot Bay for noise abatement.

ILS RWY 13R

MALSF

MISSED APPROACH: Climb to 2000 via I-BFI SE course to COGAR/I-BFI 6 DME/SEA R-077, then continue climb to 6400 via I-BFI SE course and SEA R-104 to BLAKO Int/SEA 11.8 DME and hold, continue climb-in-hold to 6400.

CLNC DEL
132.4

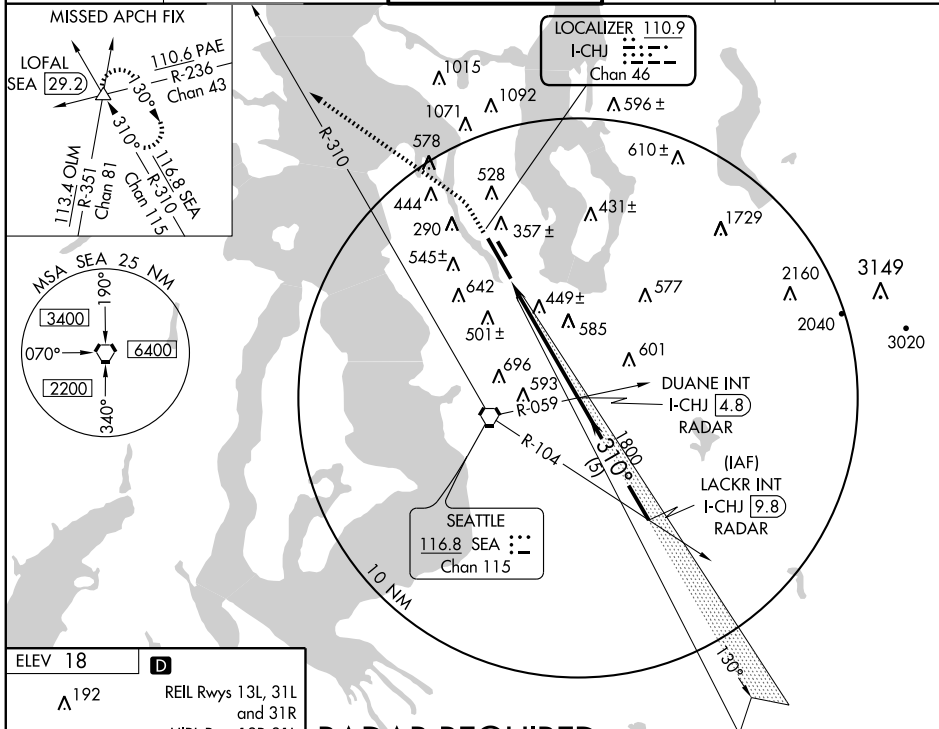
LOC/DME I-CHJ 110.9 Chan 46	APP CRS 310°	Rwy Idg 9120 TDZE 18 Apt Elev 18
---	------------------------	---

ILS RWY 31L

SEATTLE / BOEING FIELD/KING COUNTY INTL (BFI)

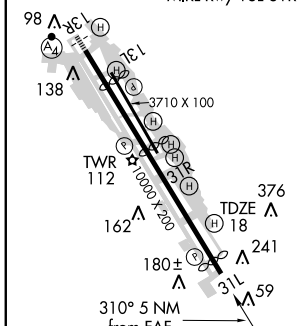
MISSED APPROACH: Climb to 700 then climbing left turn to 6000 via heading 285° and SEA R-310 to LOFAL Int/SEA 29.2 DME and hold.

ATIS 127.75	SEATTLE APP CON 119.2 284.7	BOEING TOWER 120.6 257.8	GND CON 121.9	CLNC DEL 132.4
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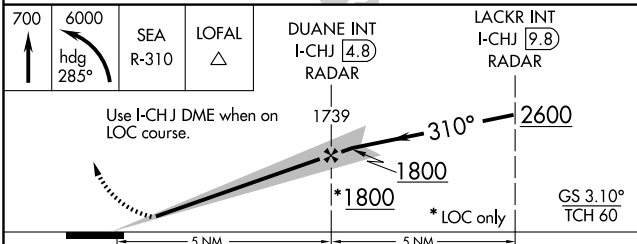


NW-1. 03 JUN 2010 to 01 JUL 2010

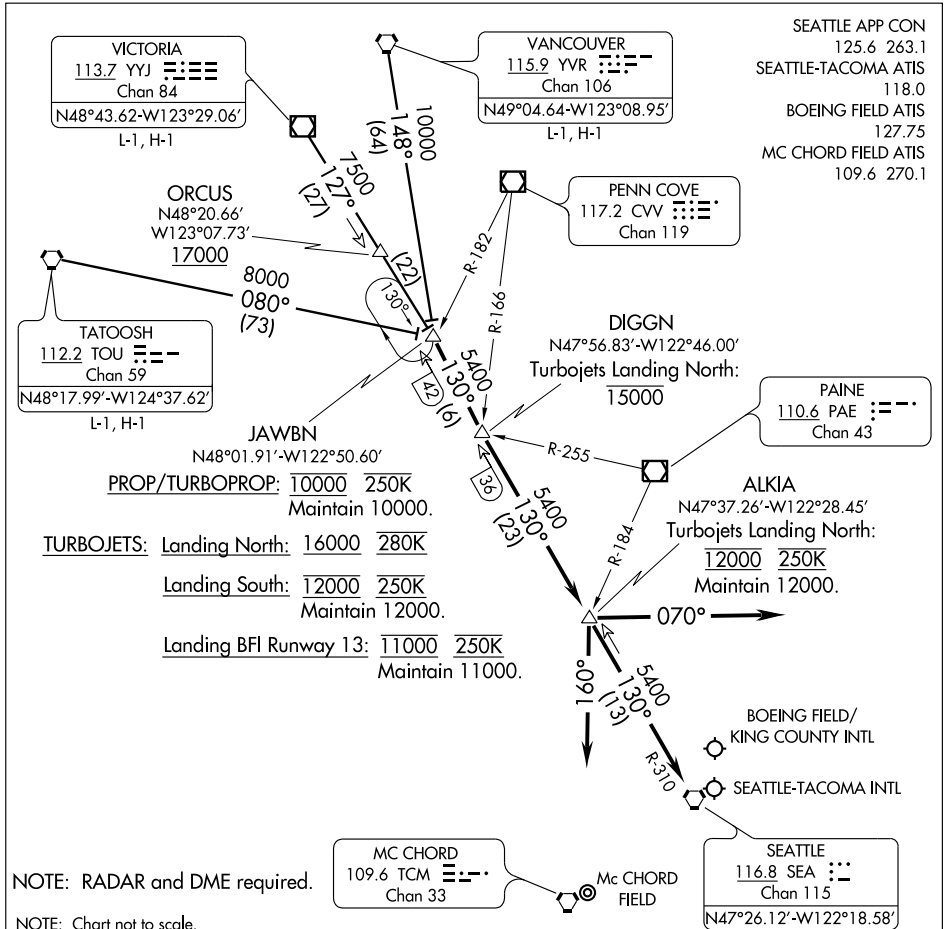
ELEV 18	D
Δ^{192} REIL Rwy 13L, 31L and 31R 413Δ HIRL Rwy 13R-31L MIRL Rwy 13L-31R	



RADAR REQUIRED



<p>180° 310° 5 NM from FAF FAF to MAP 5 NM</p>							CATEGORY		A		B		C		D	
S-ILS 31L							410-1¼ 392 (400-1¼)									
S-LOC 31L							700-1 682 (700-1)			700-2 682 (700-2)		700-2¼ 682 (700-2¼)				
CIRCLING							780-1¼ 762 (800-1¼)		840-1¼ 822 (900-1¼)		860-2½ 842 (900-2½)		960-3 942 (1000-3)			
Knots	60	90	120	150	180											
Min:Sec	5:00	3:20	2:30	2:00	1:40											



TATOOSH TRANSITION (TOU.JAWBN1): From over TOU VORTAC via TOU R-080 to JAWBN INT. Thence....

VANCOUVER TRANSITION (YVR.JAWBN1): From over YVR VORTAC via YVR R-148 to JAWBN INT. Thence....

VICTORIA TRANSITION (YYJ.JAWBN1): From over YYJ VOR/DME via YYJ R-127 to JAWBN INT. Thence....

....From over JAWBN INT/SEA 42 DME via SEA R-310 to DIGGN/SEA 36 DME then via SEA R-310 to ALKIA INT/SEA 13 DME, thence....

LANDING NORTH: Depart ALKIA INT heading 160° for vectors to final approach course.

LANDING SOUTH: Depart ALKIA INT heading 070° for vectors to final approach course.

LANDING McCHORD FIELD: After ALKIA INT proceed direct SEA VORTAC.

LOST COMMUNICATIONS: After ALKIA INT proceed direct SEA VORTAC.

KENT FOUR DEPARTURE

SEATTLE/BOEING FIELD/KING COUNTY INTL (BFI)
SL-384 (FAA) SEATTLE, WASHINGTON

ATIS 127.75
CLNC DEL
132.4
GND CON
121.9
BOEING TOWER
120.6 257.8
SEATTLE DEP CON
119.2 284.7

VANCOUVER
115.9 YVR
Chan 106
N49°04.64'-W123°08.95'
L-1, H-1

CRANBROOK
112.1 YXC
Chan 58
N49°33.30'-W116°05.27'
H-1

TAKE-OFF OBSTACLES:
463' Tree
288' Tree
DEPARTURE OBSTACLES:
620' Tower
558' Tree
562' Tank

VICTORIA
113.7 YYJ
Chan 84
N48°43.62'-W123°29.06'
L-1, H-1

WHATCOM
113.0 HUH
Chan 77
N48°56.72'-W122°34.76'
L-1, H-1

PAINE
110.6 PAE
Chan 43
N47°55.19'-W122°16.67'
L-1

MOSES LAKE
115.0 MWH
Chan 97
N47°12.65'-W119°19.01'
L-13, H-1

SEATTLE
116.8 SEA
Chan 115
N47°26.12'-W122°18.58'
L-1, H-1

WENATCHEE
111.0 EAT
Chan 47
N47°23.98'-W120°12.65'
L-13

McCHORD
109.6 TCM
Chan 33
N47°08.86'-W122°28.50'
L-1, H-1

HOQUIAM
117.7 HQM
Chan 124
N46°56.82'-W124°08.96'
L-1, H-1

OLYMPIA
113.4 OLM
Chan 81
N46°58.30'-W122°54.11'
L-1, H-1

ELLENSBURG
117.9 ELN
Chan 126
N47°01.46'-W120°27.51'
L-13

BATTLE GROUND
116.6 BTG
Chan 113
N45°44.87'-W122°35.49'
L-1, H-1

YAKIMA
116.0 YKM
Chan 107
N46°34.22'-W120°26.68'
L-13, H-1

TAKE-OFF Rwy 13L/R: Standard with a minimum climb of 380' per NM to 700'.

NOTE: Chart not to scale.

NOTE: No left turns authorized until leaving 1000'.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 13L/R: Climb runway heading, expect radar vectors to assigned route/fix. Maintain 2000 or ATC assigned altitude, expect clearance to filed altitude within 3 minutes after departure.

LOST COMMUNICATIONS: If no contact with departure control within 3 minutes after departure, climbing right turn direct SEA VORTAC, climb in SEA VORTAC holding pattern (E, left turn 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight before proceeding enroute.

LOC/DME RWY 13R
SEATTLE / BOEING FIELD/KING COUNTY INTL (BFI)

MALSF

MISSED APPROACH: Climb to 2000 via I-BFI SE course to COGAR/I-BFI 6 DME/SEA R-077, then continue climb to 6400 via I-BFI SE course and SEA R-104 to BLAKO Int/SEA 11.8 DME and hold, continue climb-in-hold to 6400.

LOM/IAF
NOLLA
362 BF
I-BFI [8.1]

10 NM

SEATTLE
116.8 SEA
Chan 115

LOCALIZER 110.9
I-BFI
Chan 46

BLAKO SEA
11.8
109.6 TCM
Chan 33

COGAR INT
I-BFI [6]

R-077

R-104

R-035

28.4°

10.4°

130° 6.4 NM from FAF

130°

085°

265°

310°

120°

210°

030°

300°

MSA BF 25 NM

2800

6900

6000

2700

2200 to LOM
326° (12.3)

2200

3504

3570

2040

3149

3020

610±

431±

528

357±

501±

585

601

577

596

593

586

578

444

290

545±

642

830

1015

1071

1092

SOTEE

274

596±

1729

192

413

98

86

104°

28.4°

10.4°

130°

085°

265°

310°

120°

210°

030°

300°

MSA BF 25 NM

2800

6900

6000

2700

2200 to LOM
326° (12.3)

2200

3504

3570

2040

3149

3020

610±

431±

528

357±

501±

585

601

577

596

593

586

578

444

290

545±

642

830

1015

1071

1092

SOTEE

274

596±

1729

192

413

98

86

104°

28.4°

10.4°

130°

085°

265°

310°

120°

210°

030°

300°

MSA BF 25 NM

2800

6900

6000

2700

2200 to LOM
326° (12.3)

2200

3504

3570

2040

3149

3020

610±

431±

528

357±

501±

585

601

577

596

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545±

642

830

1015

1071

1092

SOTEE

274

596±

1729

192

413

98

86

104°

28.4°

10.4°

130°

085°

265°

310°

120°

210°

030°

300°

MSA BF 25 NM

2800

6900

6000

2700

2200 to LOM
326° (12.3)

2200

3504

3570

2040

3149

3020

610±

431±

528

357±

501±

585

601

577

596

593

586

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545±

642

830

1015

1071

1092

SOTEE

274

596±

1729

192

413

98

86

104°

28.4°

10.4°

130°

085°

265°

310°

120°

210°

030°

300°

MSA BF 25 NM

2800

6900

6000

2700

2200 to LOM
326° (12.3)

2200

3504

3570

2040

3149

3020

610±

431±

528

357±

501±

585

601

577

596

593

586

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444

290

545±

642

830

1015

1071

1092

SOTEE

274

596±

1729

192

413

98

86

104°

28.4°

10.4°

130°

085°

265°

310°

120°

210°

030°

300°

MSA BF 25 NM

2800

6900

6000

2700

2200 to LOM
326° (12.3)

2200

3504

3570

2040

3149

3020

610±

431±

528

357±

501±

585

601

577

596

593

586

578

444

290

545±

642

830

1015

1071

1092

SOTEE

274

596±

1729

192

413

98

86

104°

28.4°

10.4°

130°

085°

265°

310°

120°

210°

030°

300°

MSA BF 25 NM

2800

6900

6000

2700

2200 to LOM
326° (12.3)

2200

3504

3570

2040

3149

3020

610±

431±

528

357±

501±

585

601

577

596

593

586

578

444

290

545±

642

830

1015

1071

1092

SOTEE

274

596±

1729

192

413

98

86

104°

28.4°

10.4°

130°

085°

265°

310°

120°

210°

030°

300°

MSA BF 25 NM

2800

6900

6000

2700

2

Remain within 10 NM 		NOLLA LOM I-BFI 8.1		2000 I-BFI SE crs	COGAR I-BFI 6	6400 I-BFI SE crs	SEA R-104	BLAKO △
2200 130° 2200 VGSI and descent angles not coincident.		1080 3.4 NM 3 NM		SOTEE I-BFI 4.7 3.12° ≥ TCH 75		I-BFI 1.7		
CATEGORY	A	B	C	D				
S-LOC 13R	560/50	542 (600-1)	560-1½ 542 (600-1½)	560-1¾ 542 (600-1¾)				
CIRCLING	780-1 759 (800-1)	840-1¼ 819 (900-1¼)	900-2½ 879 (900-2½)	960-3 939 (1000-3)				

NEEDLE SIX DEPARTURE

SEATTLE/ BOEING FIELD/KING COUNTY INTL (BFI)
SL-384 (FAA)

SEATTLE, WASHINGTON

ATIS 127.75
CLNC DEL
132.4
GND CON
121.9
BOEING TOWER
120.6 257.8
SEATTLE DEP CON
119.2 284.7

VANCOUVER
115.9 YVR
Chan 106
N49°04.64'-W123°08.95'
L-1, H-1

CRANBROOK
112.1 YXC
Chan 58
N49°33.30'-W116°05.27'
H-1

WHATCOM
113.0 HUH
Chan 77
N48°56.72'-W122°34.76'
L-1, H-1

TAKE-OFF OBSTACLES:
192' Flagpole
350' Tower

DEPARTURE OBSTACLES:
1071' Building
578' Towers

VICTORIA
113.7 YYJ
Chan 84
N48°43.62'-W123°29.06'
L-1, H-1

SEATTLE
116.8 SEA
Chan 115
N47°26.12'-W122°18.58'
L-1, H-1

PAINE
110.6 PAE
Chan 43
N47°55.19'-W122°16.66'
L-1

WENATCHEE
111.0 EAT
Chan 47
N47°23.98'-W120°12.65'
L-13

MOSES LAKE
115.0 MWH
Chan 97
N47°12.65'-W119°19.01'
L-13, H-1

HOQUIAM
117.7 HQM
Chan 124
N46°56.82'-W124°08.96'
L-1, H-1

OLYMPIA
113.4 OLM
Chan 81
N46°58.30'-W122°54.11'
L-1, H-1

ELLENSBURG
117.9 ELN
Chan 126
N47°01.46'-W120°27.51'
L-13

BATTLE GROUND
116.6 BTG
Chan 113
N45°44.87'-W122°35.49'
L-1, H-1

YAKIMA
116.0 YKM
Chan 107
N46°34.22'-W120°26.68'
L-13, H-1

TAKE-OFF Rwy 31L/R: Standard with a minimum climb of
350' per NM to 1300'.

NOTE: No right turns authorized until leaving 1300'.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 31L/R: Climb runway heading, expect radar vectors to assigned route/fix. Maintain 2000 or ATC assigned altitude, expect clearance to filed altitude within 3 minutes after departure.

LOST COMMUNICATIONS: If no contact with departure control within 3 minutes after departure, climbing left turn direct SEA VORTAC, climb in SEA VORTAC holding pattern (E, left turn 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight before proceeding enroute.

OLYMPIA SIX ARRIVAL

ST-582 (FAA)

SEATTLE, WASHINGTON

SEATTLE APP CON

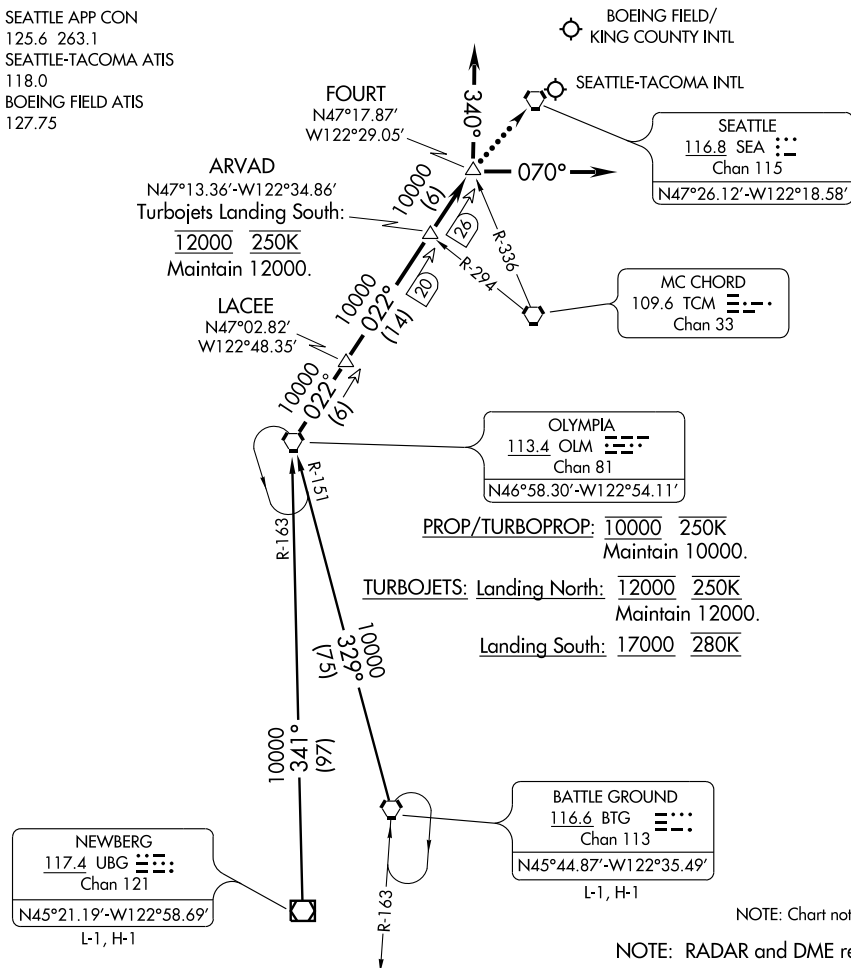
125.6 263.1

SEATTLE-TACOMA ATIS

118.0

BOEING FIELD ATIS

127.75



NOTE: Chart not to scale.

NOTE: RADAR and DME required.

BATTLE GROUND TRANSITION (BTG.OLM6): From over BTG VORTAC via BTG R-329 and OLM R-151 to OLM VORTAC. Thence....

NEWBERG TRANSITION (UBG.OLM6): From over UBG VOR/DME via UBG R-341 and OLM R-163 to OLM VORTAC. Thence....

....From over OLM VORTAC via OLM R-022 to LACEE/OLM 6 DME, then via OLM R-022 to ARVAD INT/OLM 20 DME, then via OLM R-022 to FOURT INT/OLM 26 DME, thence...

LANDING NORTH: Depart FOURT INT/OLM 26 DME heading 070° for vectors to final approach course.

LANDING SOUTH: Depart FOURT INT/OLM 26 DME heading 340° for vectors to final approach course.

LOST COMMUNICATIONS: From over FOURT INT/OLM 26 DME, proceed direct SEA VORTAC.

T

A

Circling to Rwy 13L/31R NA at night.
Inoperative table does not apply. DME/DME RNP -0.3 NA.
Visibility reduction by helicopters NA.

MALSF

MISSED APPROACH: Climb to 6400 direct DUANE and via 117° track to BLAKO and hold, continue climb-in-hold to 6400.

ATIS 127.75	SEATTLE APP CON 119.2 284.7	BOEING TOWER 120.6 257.8	GND CON 121.9	CLNC DEL 132.4
----------------	--------------------------------	-----------------------------	------------------	-------------------

ELEV 21

D

MIRL Rwy 13L-31R
HIRL Rwy 13R-31L
REIL Rwy 13L, 31L and 31R

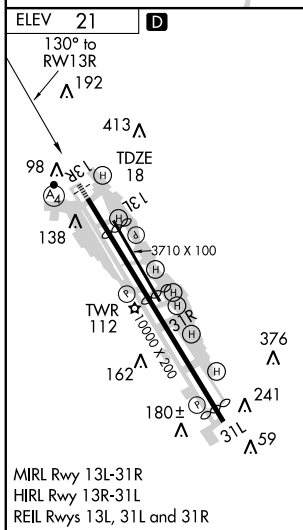
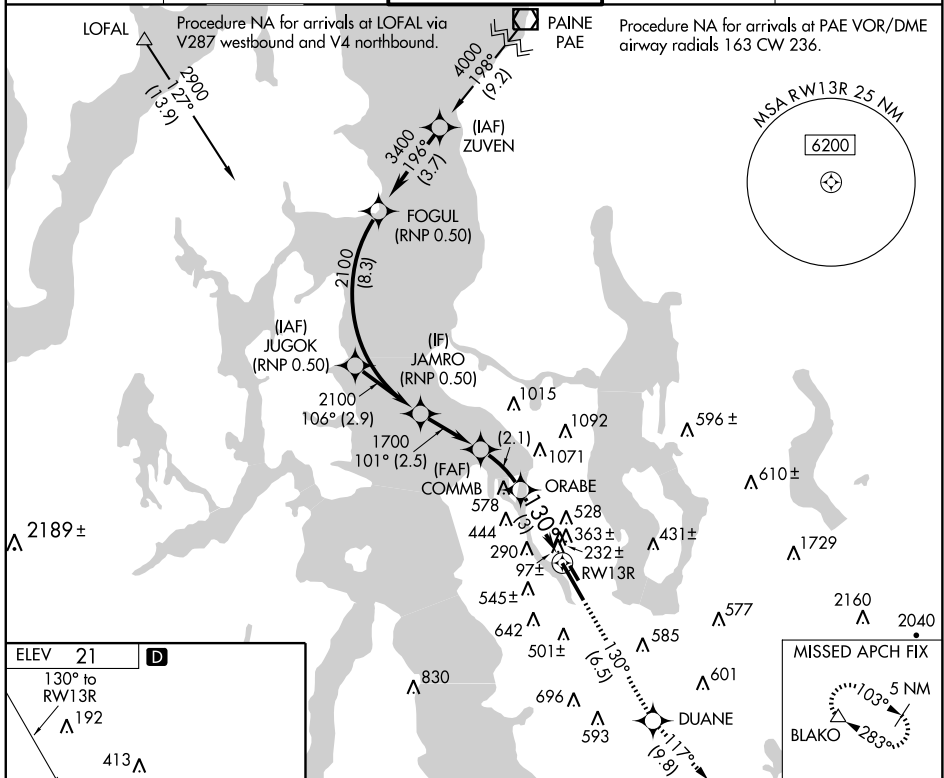
CATEGORY	A	B	C	D
LNAV MDA	720/50	703 (700-1)	720-2 703 (700-2)	720-2¼ 703 (700-2¼)
CIRCLING	780-1 759 (800-1)	840-1¼ 819 (900-1¼)	900-2¾ 879 (900-2¾)	960-3 939 (1000-3)

NW-1, 03 JUN 2010 to 01 JUL 2010

RNAV (RNP) Z RWY 13R

SEATTLE / BOEING FIELD/KING COUNTY INTL (BFI)

<div><div><div></div><div></div></div><div><div></div><div></div></div></div> <div>GPS and RF required. For uncompensated Baro-VNAV systems, procedure NA below -3°C (26°F) or above 48°C (119°F). For inoperative MALSF, increase RNP 0.15 visibility to 1¼, RNP 0.30 to 2¼.</div>	<div>MALSF</div> <div><div><div></div><div></div></div><div><div></div><div></div></div></div>	MISSED APPROACH: Climb to 2000 via 130° track to DUANE then climb to 6400 via 117° track to BLAKO and hold. Continue climb-in-hold to 6400.		
ATIS 127.75	SEATTLE APP CON 119.2 284.7	BOEING TOWER 120.6 257.8	GND CON 121.9	CLNC DEL 132.4



JAMRO		VGSI and RNAV glidepath not coincident.		2000 ↑ 130°	DUANE ✦	6400 ↑ 117°	BLAKO △
2100	101°	1700	ORABE 1031	RW13R			
Procedure Turn NA		1700					
GP 3.00°							
TCH 50							
2.5 NM		2.1 NM		3 NM			
CATEGORY	A	B	C	D			
RNP 0.15 DA	523-1½ 505 (600-1½)						
RNP 0.30 DA	637-2 619 (700-2)						
SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED							

APRON

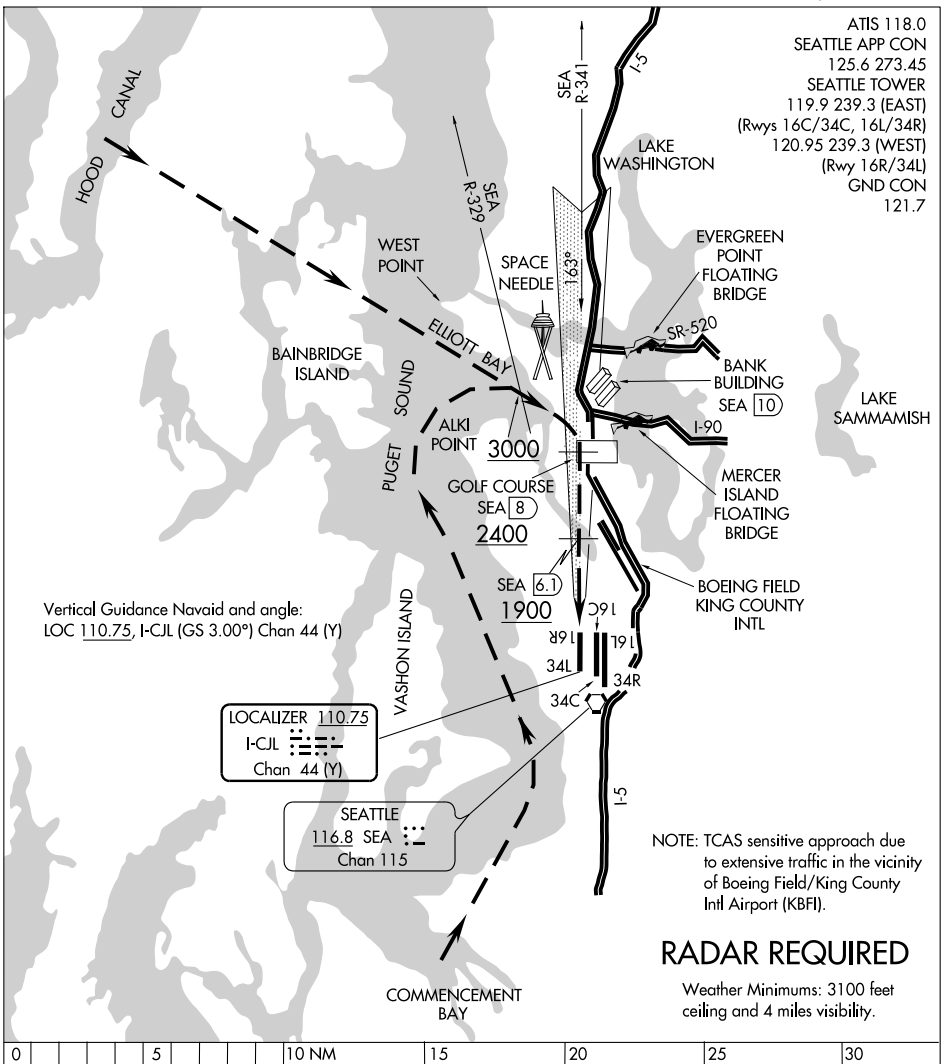
NW-1. 03 JUN 2010 to 01 JUL 2010

ALKI VISUAL RWY 16R

AL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)

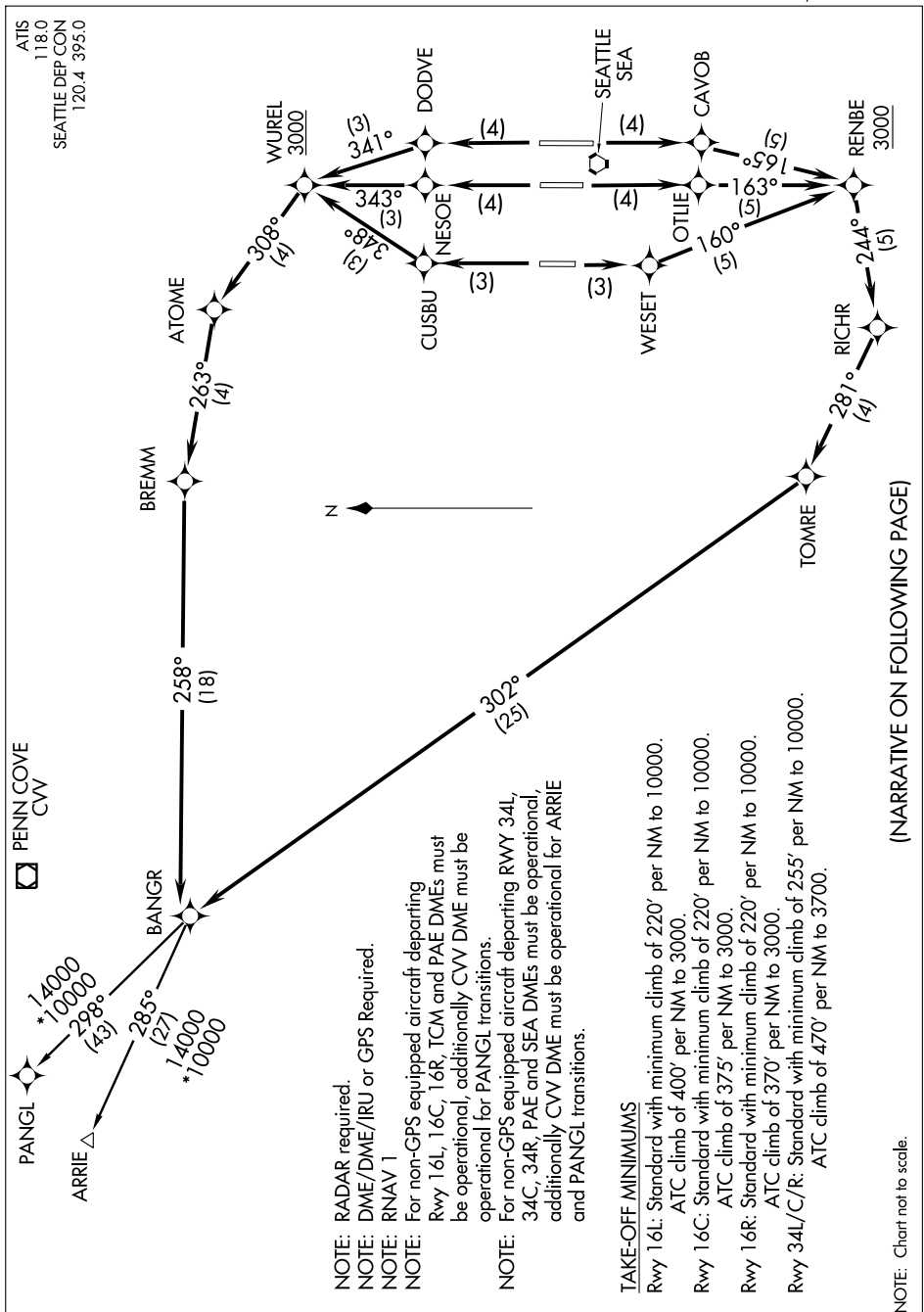
SEATTLE, WASHINGTON



ALKI VISUAL APPROACH RWY 16R

When the ceiling is at least 3100' and visibility is at least 4 miles, aircraft may be vectored over Puget Sound for an Alki Visual Runway 16R Approach. When cleared for an Alki Visual Approach: proceed inbound visually over the middle of Elliott Bay (via route depicted); intercept the Runway 16R Localizer/SEA R-341 on Runway 16R extended centerline at the golf course (8 DME) and complete a straight in visual approach to the airport. On final approach, a descent profile of approximately 300' per mile may be made with reference to the altitudes shown at the visual checkpoints or associated DME/fix positions.

BANGR SIX DEPARTURE (RNAV)



BANGR SIX DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16L: Climb direct CAVOB, then via 165° track to cross RENBE at or above 3000, then via depicted route to BANGR, thence. . . .

TAKE-OFF RUNWAY 16C: Climb direct OTLIE, then via 163° track to cross RENBE at or above 3000, then via depicted route to BANGR, thence. . . .

TAKE-OFF RUNWAY 16R: Climb direct WESET, then via 160° track to cross RENBE at or above 3000, then via depicted route to BANGR, thence. . . .

TAKE-OFF RUNWAY 34L: Climb direct CUSBU, then via 348° track to cross WUREL at or above 3000, then via depicted route to BANGR, thence. . . .

TAKE-OFF RUNWAY 34C: Climb direct NESOE, then via 343° track to cross WUREL at or above 3000, then via depicted route to BANGR, thence. . . .

TAKE-OFF RUNWAY 34R: Climb direct DODVE, then via 341° track to cross WUREL at or above 3000, then via depicted route to BANGR, thence. . . .

. . . . via (transition). Maintain assigned altitude, expect filed altitude/flight level 15 NM from SEA VORTAC.

ARRIE TRANSITION (BANGR6.ARRIE)

PANGL TRANSITION (BANGR6.PANGL)

TAKE-OFF OBSTACLE NOTES

Rwy 16L: Trees beginning 2908' from DER, 1064' right of centerline, up to 100' AGL/476' MSL.

Rwy 16C: Trees beginning 4477' from DER, 484' right of centerline, up to 100' AGL/507' MSL.

Rwy 16R: Trees, antenna on building and light pole beginning 488' from DER, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from DER, 587' right of centerline, up to 100' AGL/468' MSL.

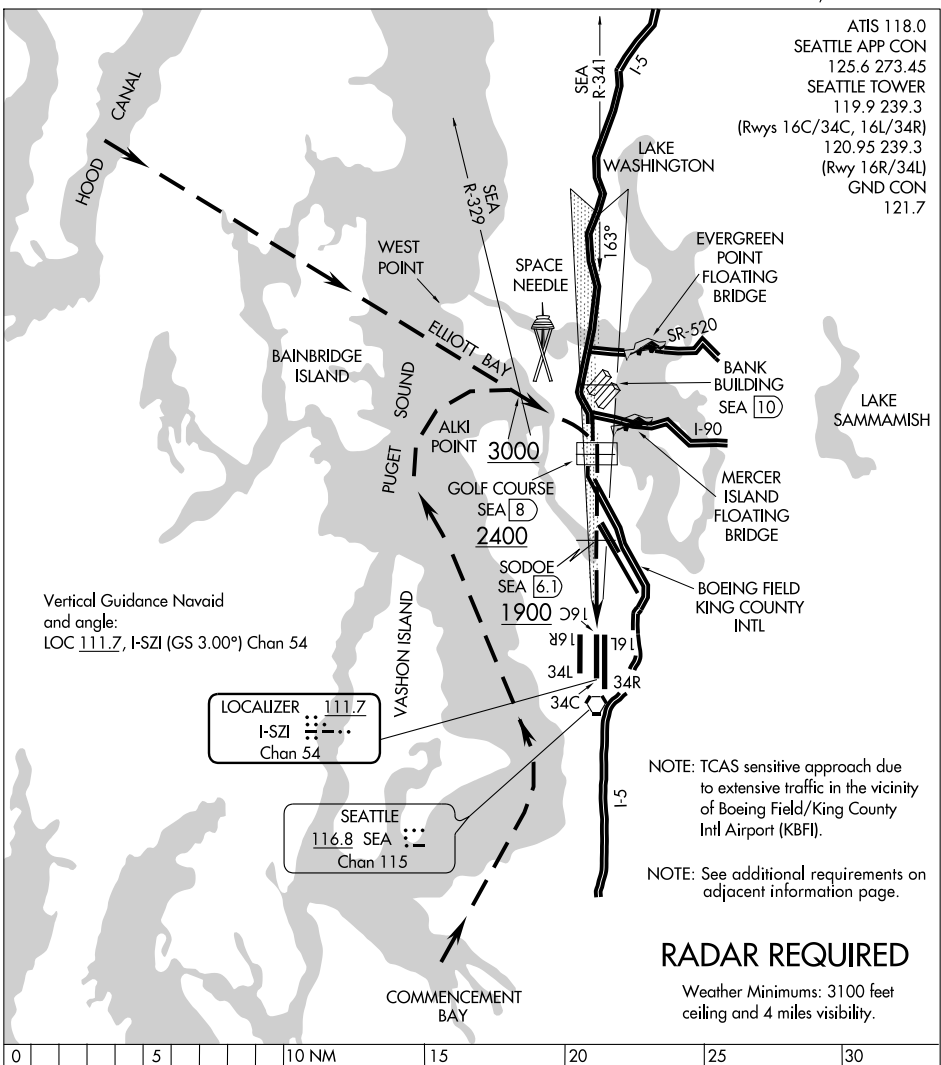
Rwy 34L: Fence 189' from DER, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from DER, 857' left of centerline, up to 100' AGL/522' MSL.

BAY VISUAL RWY 16C

AL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)

SEATTLE, WASHINGTON



BAY VISUAL APPROACH RWY 16C

When the ceiling is at least 3100' and visibility is at least 4 miles, aircraft may be vectored over Puget Sound for a Bay Visual Runway 16C Approach. When cleared for a Bay Visual Approach: proceed inbound visually over the middle of Elliott Bay (via route depicted); intercept the Runway 16C Localizer/SEA R-341 on Runway 16C extended centerline at the golf course (8 DME) and complete a straight in visual approach to the airport. On final approach, a descent profile of approximately 300' per mile may be made with reference to the altitudes shown at the visual checkpoints or associated DME/fix positions.

SEATTLE-TACOMA INTL AIRPORT**ALERT NOTICE****ATTENTION ALL AIRCRAFT LANDING TO THE SOUTH:**

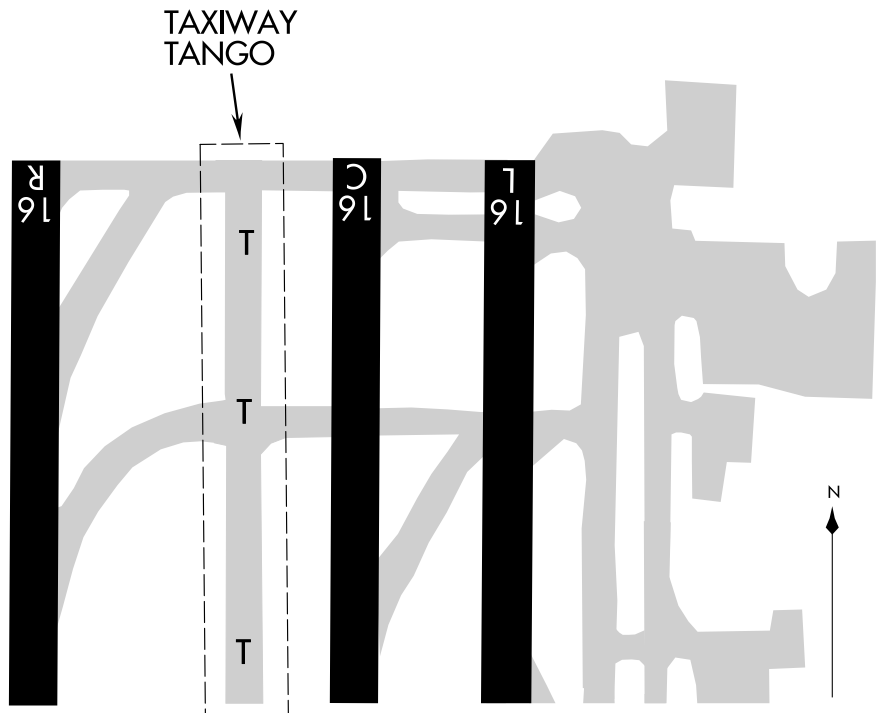
When transitioning from an instrument procedure to a visual approach to Runway 16C, verify that you are aligned for the intended landing Runway, not Taxiway Tango. Taxiway Tango is west and parallel to Runway 16C.

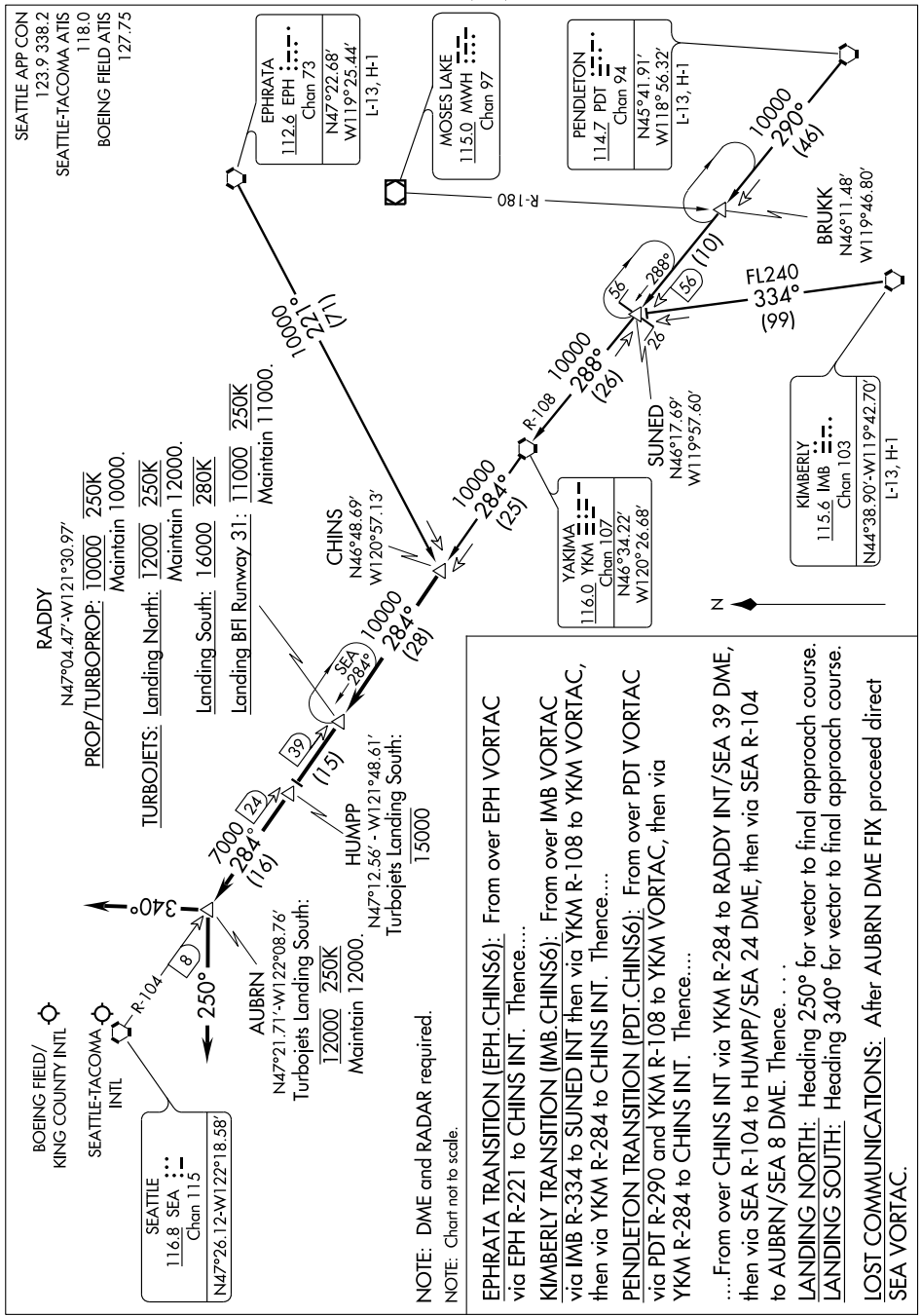
TRANSITION TO VISUAL:

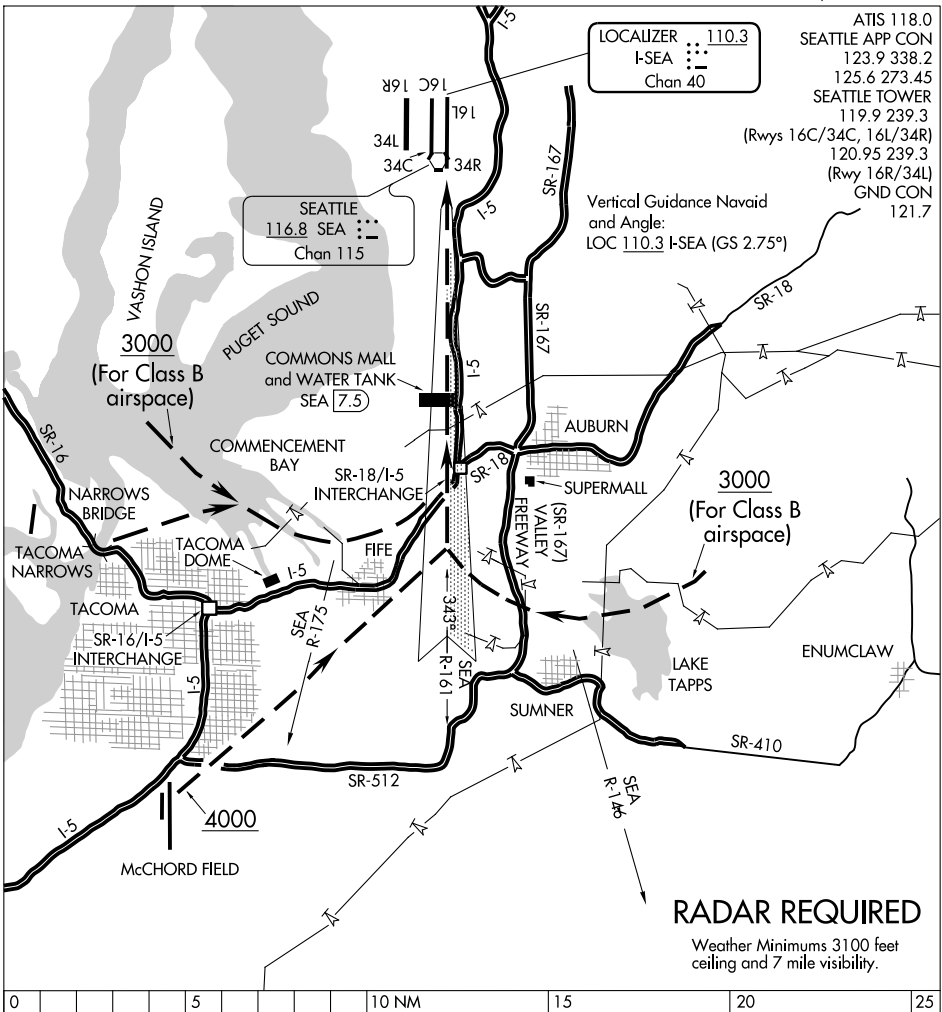
Taxiway Tango has been mistaken for Runway 16C from the air during certain visibility conditions, i.e., wet runway, low sun angle reflections. Aircrews are advised to be aware of the proximity of the taxiway to Runway 16C and its runway-like appearance while on approach.

RECOMMENDATION:

Aircrews should use visual cues, e.g., approach lighting systems, REILs, when available, to confirm alignment with Runway 16C not Taxiway Tango. Additionally, it is recommended to track the localizer until the runway environment is visually verified.

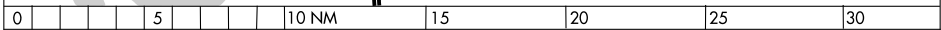






COMMONS VISUAL APPROACH RWY 34R

When the ceiling is at least 3100' and visibility is at least 7 miles, aircraft may be vectored towards Commencement Bay or McChord Field or Lake Tapps for a Commons Visual Runway 34R Approach. When cleared for this approach; proceed inbound visually using the depicted landmarks to the centerline of runway 34R. Turn final before or over the interchange of State Road 18 (SR-18) and Interstate 5. Be established on the localizer or runway centerline at the Commons Mall and Water Tank (7.5 DME) and proceed visually to the runway.



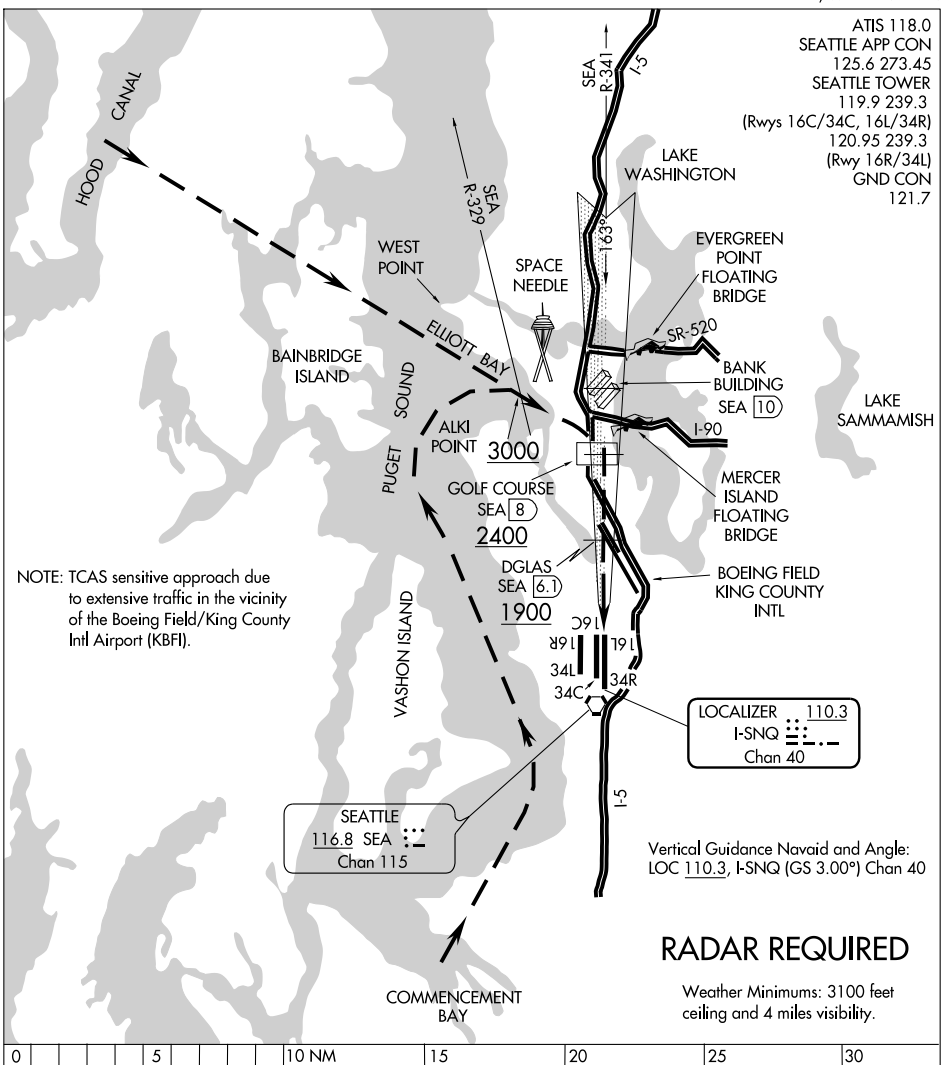
When the ceiling is at least 5000' and visibility is at least 4 miles, aircraft may be vectored over Kirkland or Lake Youngs for a Dawg Visual Runway 16R Approach. When cleared for a Dawg Visual Approach; proceed inbound visually over Husky Stadium (via route depicted); intercept the Runway 16R localizer/SEA R-341 at 13 DME and complete a straight in visual approach to the airport.

ELLIOTT VISUAL RWY 16L

AL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)

SEATTLE, WASHINGTON



ELLIOTT VISUAL APPROACH RWY 16L

When the ceiling is at least 3100' and visibility is at least 4 miles, aircraft may be vectored over Puget Sound for an Elliott Visual Runway 16L Approach. When cleared for an Elliott Visual Approach: proceed inbound visually over the middle of Elliott Bay (via route depicted); intercept the 16L Localizer/SEA R-341 on Runway 16L extended centerline at the golf course (8 DME) and complete a straight in visual approach to the airport. On final approach, a descent profile of approximately 300' per mile may be made with reference to the altitude shown at the visual checkpoints or associated DME/fix positions.

ELMAA EIGHT DEPARTURE

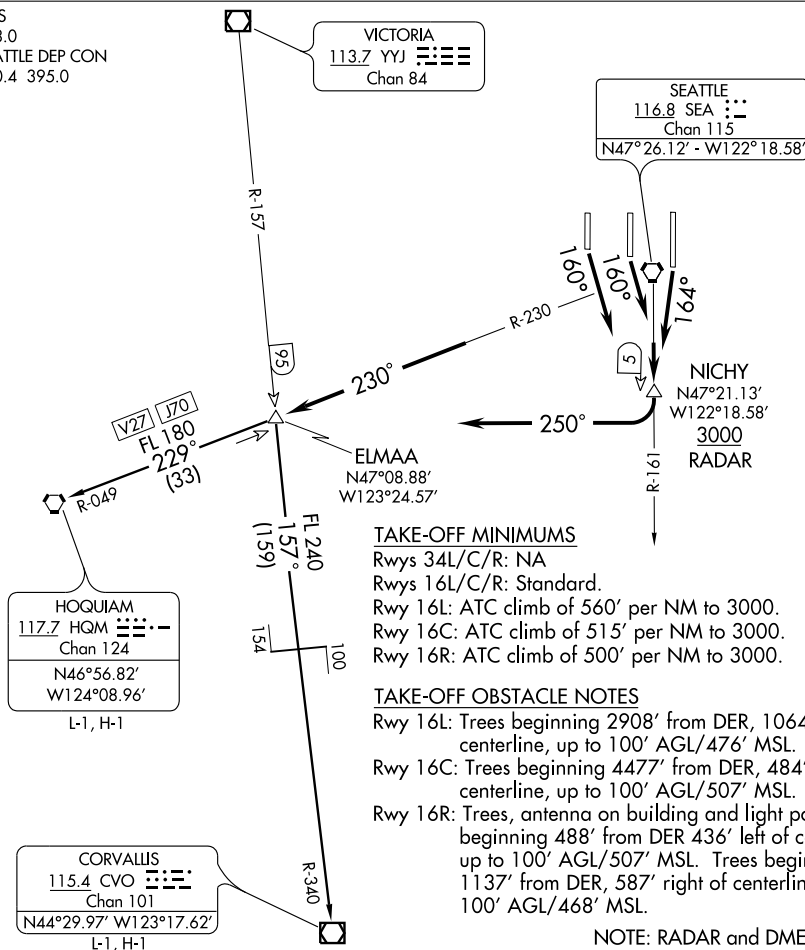
SL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)
SEATTLE, WASHINGTON

ATIS
118.0
SEATTLE DEP CON
120.4 395.0

VICTORIA
113.7 YYJ
Chan 84

SEATTLE
116.8 SEA
Chan 115
N47°26.12' - W122°18.58'



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16L: Climb heading 164° and SEA R-161, thence. . .

TAKE-OFF RUNWAYS 16C/R: Climb heading 160° and SEA R-161, thence. . .

. . . to cross NICHY/5 DME/RADAR at or above 3000, then right turn heading 250° to intercept SEA R-230 to ELMAA INT, then via (transition/assigned route), expect filed altitude/flight level 15 NM from SEA.

CORVALLIS TRANSITION (ELMAA8.CVO): From over ELMAA INT via YYJ R-157 and CVO R-340 to CVO VOR/DME.

HOQUIAM TRANSITION (ELMAA8.HQM): From over ELMAA INT via HQM R-049 to HQM VORTAC.

EPHRATA SIX ARRIVAL

ST-582 (FAA)

SEATTLE, WASHINGTON

SEATTLE APP CON

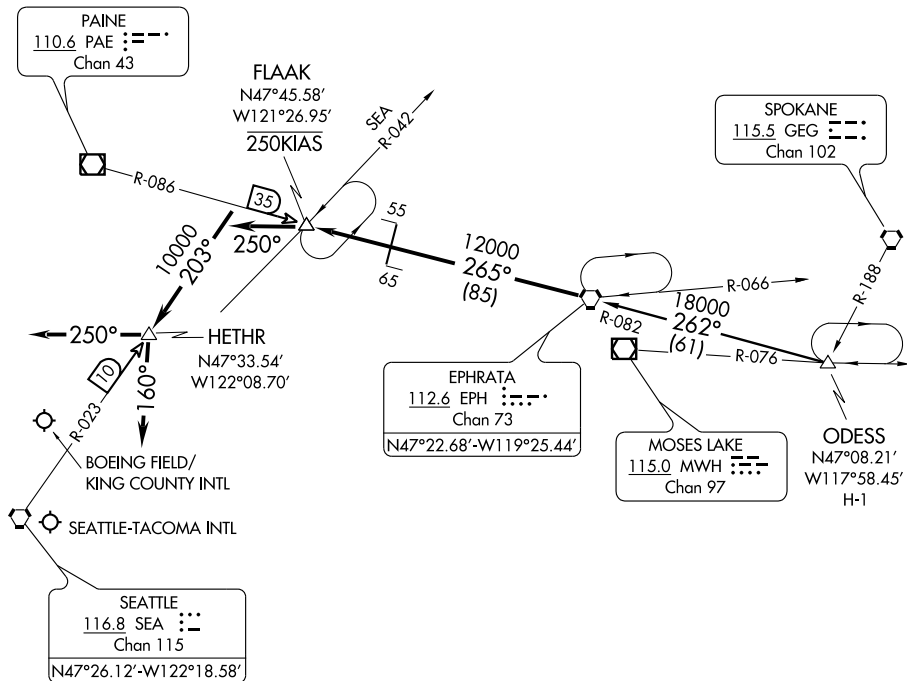
123.9 338.2

SEATTLE-TACOMA ATIS

118.0

BOEING FIELD ATIS

127.75



NOTE: DME and RADAR required.

ODESS TRANSITION (ODESS.EPH6): From over ODESS INT via EPH R-082 to EPH VORTAC. Thence....

....From over EPH VORTAC via EPH R-265 and PAE R-086 to FLAAK INT. Then via heading 250° to intercept the SEA R-023, then via SEA R-023 to HETHR DME Fix, thence....

LANDING NORTH: Heading 160° for vectors to final approach course;

LANDING SOUTH: Heading 250° for vectors to final approach course.

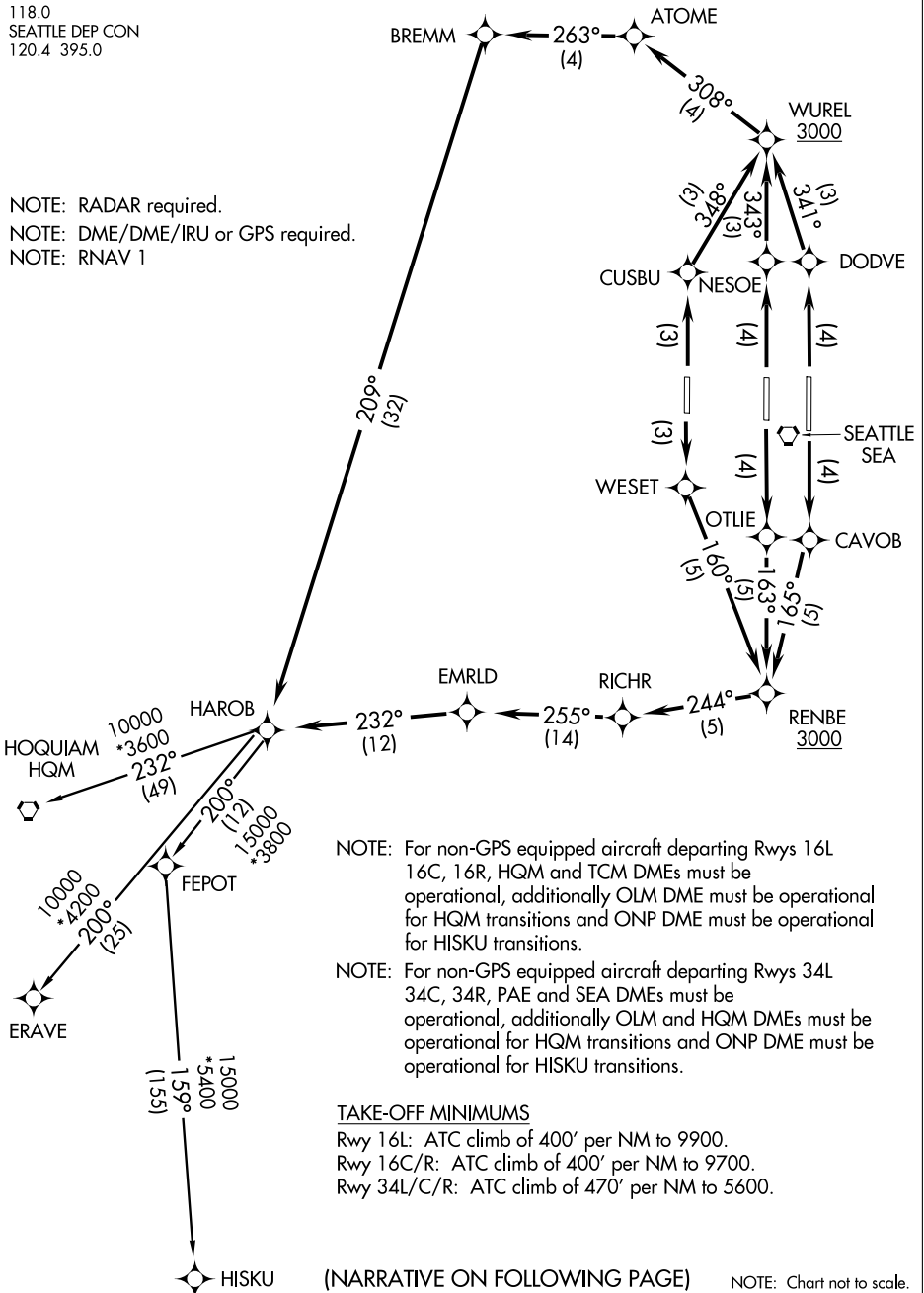
LOST COMMUNICATIONS: From over HETHR DME proceed direct SEA VORTAC.



HAROB THREE DEPARTURE (RNAV)

ATIS
118.0
SEATTLE DEP CON
120.4 395.0

NOTE: RADAR required.
NOTE: DME/DME/IRU or GPS required.
NOTE: RNAV 1



HAROB THREE DEPARTURE (RNAV)



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16L: Climb direct CAVOB, then via 165° track to cross RENBE at or above 3000, then via depicted route to HAROB, thence. . . .

TAKE-OFF RUNWAY 16C: Climb direct OTLIE, then via 163° track to cross RENBE at or above 3000, then via depicted route to HAROB, thence. . . .

TAKE-OFF RUNWAY 16R: Climb direct WESET, then via 160° track to cross RENBE at or above 3000, then via depicted route to HAROB, thence. . . .

TAKE-OFF RUNWAY 34L: Climb direct CUSBU, then via 348° track to cross WUREL at or above 3000, then via depicted route to HAROB, thence. . . .

TAKE-OFF RUNWAY 34C: Climb direct NESOE, then via 343° track to cross WUREL at or above 3000, then via depicted route to HAROB, thence. . . .

TAKE-OFF RUNWAY 34R: Climb direct DODVE, then via 341° track to cross WUREL at or above 3000, then via depicted route to HAROB, thence. . . .

. . . . via (transition). Maintain assigned altitude, expect filed altitude/flight level 15 NM from SEA VORTAC.

ERAVE TRANSITION (HAROB3.ERAVE)

FEPOT TRANSITION (HAROB3.FEPOT)

HISKU TRANSITION (HAROB3.HISKU)

HOQUIAM TRANSITION (HAROB3.HQM)

TAKE-OFF OBSTACLE NOTES

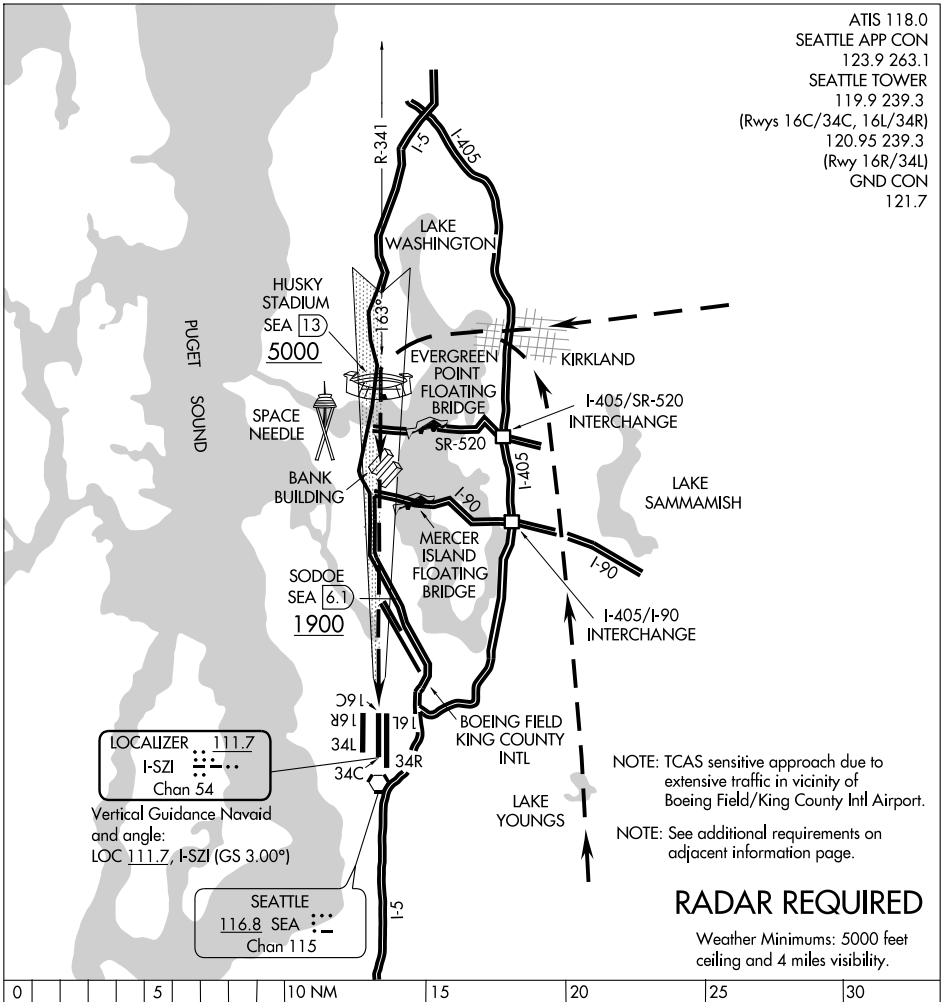
Rwy 16L: Trees beginning 2908' from DER, 1064' right of centerline, up to 100' AGL/476' MSL.

Rwy 16C: Trees beginning 4477' from DER, 484' right of centerline, up to 100' AGL/507' MSL.

Rwy 16R: Trees, antenna on building and light pole beginning 488' from DER, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from DER, 587' right of centerline, up to 100' AGL/468' MSL.

Rwy 34L: Fence 189' from DER, 401' right of centerline, up to 12' AGL/420' MSL.

Trees beginning 4010' from DER, 857' left of centerline, up to 100' AGL/522' MSL.



HUSKY VISUAL APPROACH RWY 16C

When the ceiling is at least 5000' and visibility is at least 4 miles, aircraft may be vectored over Kirkland or Lake Youngs for a Husky Visual Runway 16C Approach. When cleared for a Husky Visual Approach; proceed inbound visually over Husky Stadium (via route depicted); intercept the Runway 16C localizer/SEA R-341 at 13 DME and complete a straight in visual approach to the airport.

SEATTLE-TACOMA INTL AIRPORT**ALERT NOTICE****ATTENTION ALL AIRCRAFT LANDING TO THE SOUTH:**

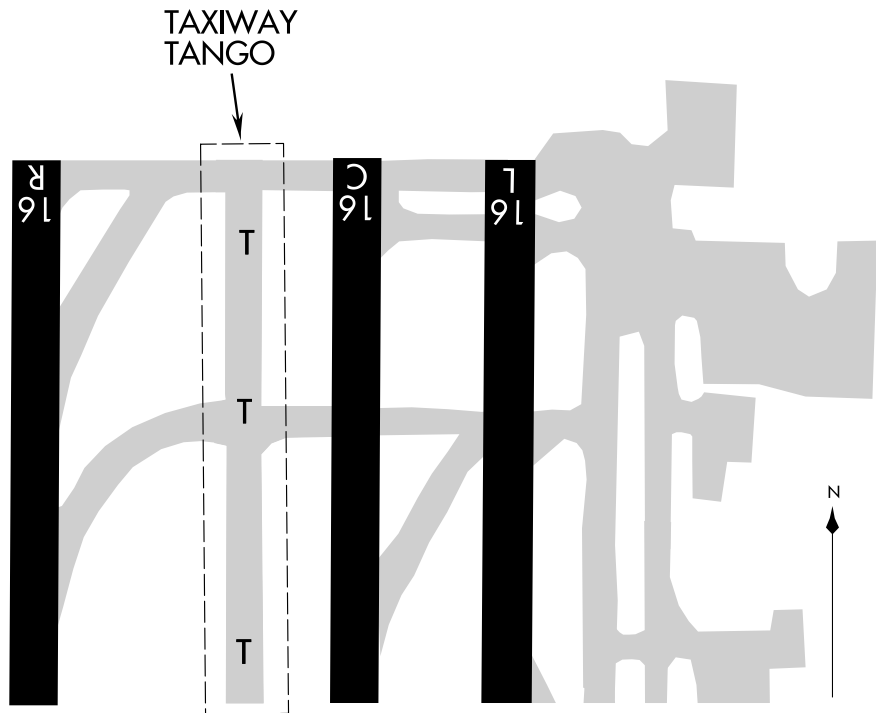
When transitioning from an instrument procedure to a visual approach to Runway 16C, verify that you are aligned for the intended landing Runway, not Taxiway Tango. Taxiway Tango is west and parallel to Runway 16C.

TRANSITION TO VISUAL:

Taxiway Tango has been mistaken for Runway 16C from the air during certain visibility conditions, i.e., wet runway, low sun angle reflections. Aircrews are advised to be aware of the proximity of the taxiway to Runway 16C and its runway-like appearance while on approach.

RECOMMENDATION:

Aircrews should use visual cues, e.g., approach lighting systems, REILs, when available, to confirm alignment with Runway 16C not Taxiway Tango. Additionally, it is recommended to track the localizer until the runway environment is visually verified.



ILS or LOC RWY 16C
SEATTLE-TACOMA INTL (SEA)

MISSED APPROACH: Climb heading 160° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILLT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.

Procedure NA for arrivals at PAE VOR/DME via V23 northbound.

167° (10.9) *6000

(IF) WEMAT I-SZ 18.2 PAE 10.9 RADAR

R-167

343°

5000

163°

2.9

ERYKA I-SZ 15.3 RADAR

4000

2.9

MGNUM I-SZ 12.4 RADAR

3200

2.4

ANVIL I-SZ 10 RADAR

163°

3.9

1900

SODOE I-SZ 6.1 RADAR

Boeing Field/King County Intl

529±

IM

1729

10 NM

2160

3149

2040

3020

SEATTLE 116.8 SEA Chan 115

LOCALIZER 111.7 I-SZ Chan 54

116.8 SEA Chan 115

MILL INT SEA 11 RADAR

MISSED APCH FIX

MC CHORD TCM 109.6 Chan 33

074°

254°

R-074

ALTERNATE MISSED APCH FIX

DME or RADAR REQUIRED

IAF PAINE 110.6 PAE Chan 43

ELEV 433

D

TDZE
430

515 ±
163° 4.4 NM from FAF

89L 39L 19L

TDZE 433

TWR 696

606 A

593 A

517 ☆

HIRL all Rwys

TDZ/CL Rws 16L, 16C, 16R and 34R

FAF to MAP 4.4 NM					
Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

CATEGORY	A	B	C	D
S-ILS 16C	630/18 200 (200-½)			
S-LOC 16C	760/24 330 (400-½)			760/40 330 (400-¾)
SIDESTEP 16L	760/50 327 (400-1)		760-1½ 327 (400-1½)	760-2 327 (400-2)
CIRCLING 16C	1000-1 567 (600-1)		1000-1½ 567 (600-1½)	1000-2 567 (600-2)

SEATTLE-TACOMA INTL AIRPORT**ALERT NOTICE****ATTENTION ALL AIRCRAFT LANDING TO THE SOUTH:**

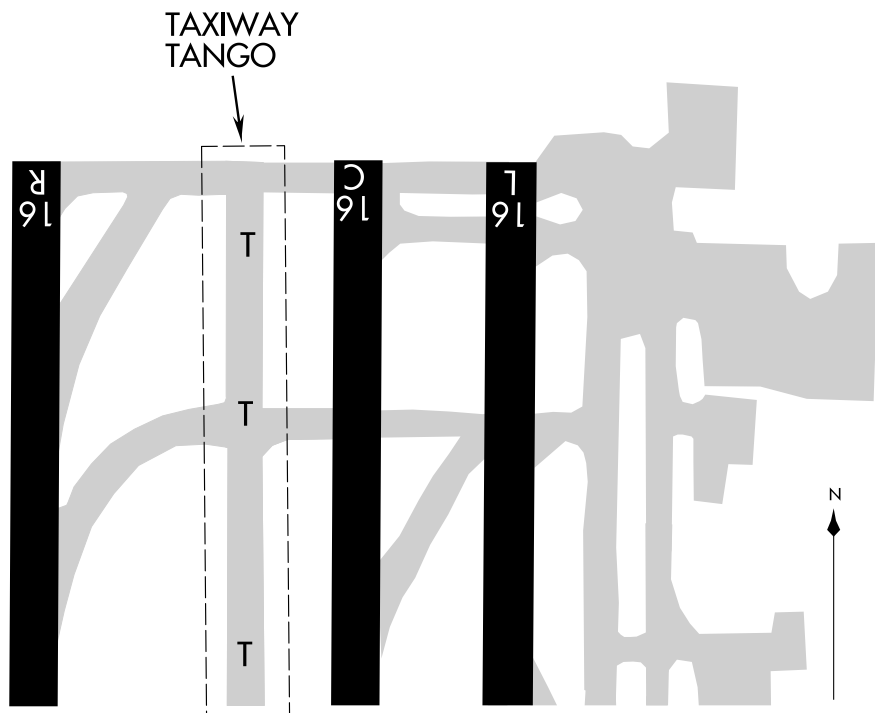
When transitioning from an instrument procedure to a visual approach to Runway 16C, verify you are aligned for the intended landing Runway, not Taxiway Tango. Taxiway Tango is west and parallel to Runway 16C.

TRANSITION TO VISUAL:

Taxiway Tango has been mistaken for Runway 16C from the air during certain visibility conditions, i.e., wet runway, low sun angle reflections. Aircrews are advised to be aware of the proximity of the taxiway to Runway 16C and its runway-like appearance while on approach.

RECOMMENDATION:

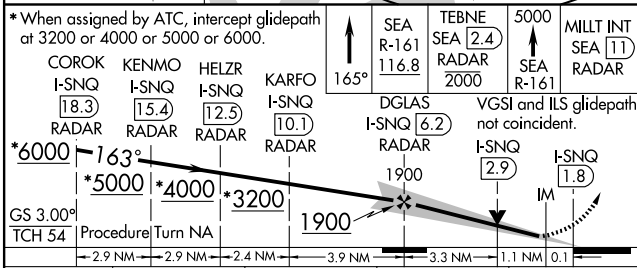
Aircrews should use visual cues, e.g., approach lighting systems, REILs, when available, to confirm alignment with Runway 16C not Taxiway Tango. Additionally, it is recommended when executing a segment of the ILS approach for a visual transition, track the localizer until the runway environment is visually verified.



ILS or LOC RWY 16L
SEATTLE-TACOMA INTL (SEA)

ALSF-2 MISSED APPROACH: Climb heading 165° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILLT INT/SEA 11 DME/RADAR and hold. continue climb-in-hold to 5000.

DME or RADAR REQUIRED



D

ELEV 433

▲ 515 ±
163° 4.4 NM
from FAF

TDZE 433

TWR 696

606 ▲

593 ▲

517 ☆

0.6% DOWN
0.6% DOWN
0.6% DOWN

8500 X 150
8428 X 150
11901 X 150
11901 X 150

0.8% UP
0.8% UP
0.8% UP

34L
34C
34R

HIRL all Rwy's
TDZ/CL Rwy's 16L, 16C, 16R and 34R

FAF to MAP 420 NM

Knots	60	90	120	150	180
Min:Sec	4:24	2:56	2:12	1:46	1:28

LOC/DME I-CJL	APP CRS	Rwy Idg	8500
110.75	163°	TDZE	415
Chan 44 (Y)		Apt Elev	433

ILS or LOC RWY 16R

SEATTLE-TACOMA INTL (SEA)

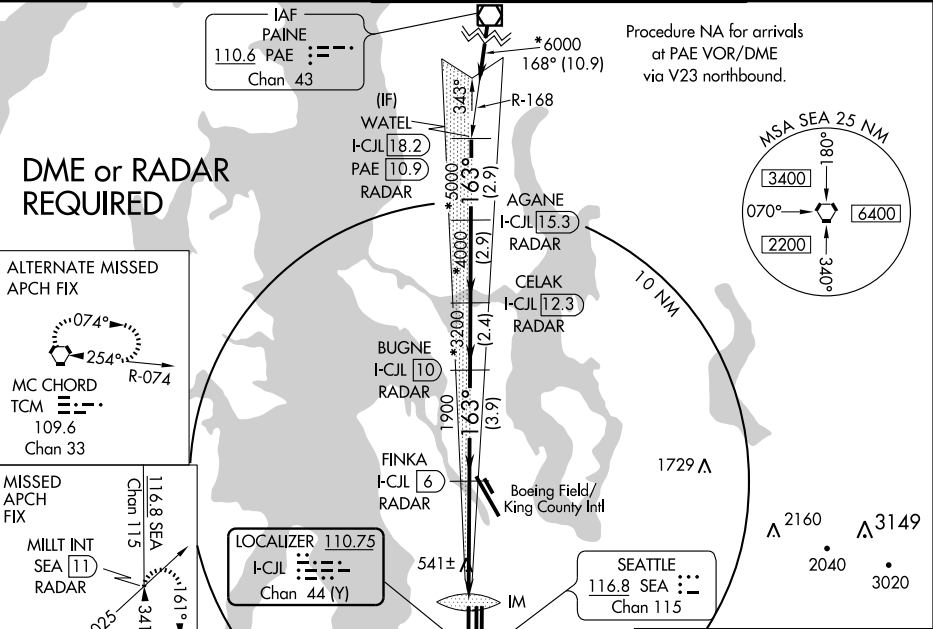
▼

DME or RADAR required.

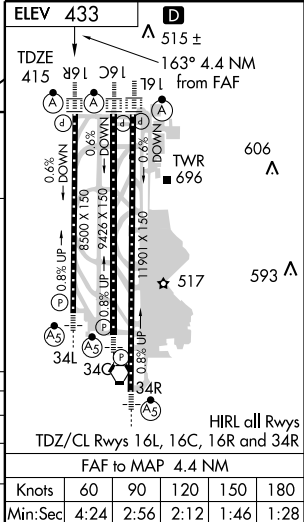
ALSF-2

MISSED APPROACH: Climb heading 158° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILIT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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*When assigned by ATC, intercept glidepath at 3200 or 4000 or 5000 or 6000.			
WATER I-CJL 18.2 RADAR	AGANE I-CJL 15.3 RADAR	CELAK I-CJL 12.3 RADAR	BUGNE I-CJL 10 RADAR
FINKA I-CJL 6 RADAR	TEBNE SEA 2.4 RADAR 2000	SEA R-161 116.8	5000 SEA R-161
VGSI and ILS glidepath not coincident.			
GS 3.00° TCH 55'			
1900			
163°			
*6000 *5000 *4000 *3200			
2.9 NM 2.9 NM 2.4 NM 3.9 NM 0.9 0.1			
CATEGORY	A	B	C
S-ILS 16R	615/18 200 (200-½)		
S-LOC 16R	800/24 385 (400-½)		800/40 385 (400-¾)
CIRCLING	1000-1 567 (600-1)		1000-2 567 (600-2)



ILS or LOC RWY 34C
SEATTLE-TACOMA INTL (SEA)

MALSR
Rwy 34C/R

MISSED APPROACH: Climb heading 345° and SEA VORTAC R-341 to cross COYLA/SEA 4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-341 to MGNUM/SEA 12.4 DME/RADAR and hold, continue climb-in-hold to 5000.

MISSED APCH FIX
R-341
110.6 PAE Chan 43
MGNUM SEA 12.4 RADAR
R-164
116.8 SEA Chan 115

ALTERNATE MISSED APCH FIX
R-329
149°
3290°
PAINE PAE 110.6 Chan 43

LOCALIZER 111.7
I-TUC Chan 54

SEATTLE 116.8 SEA Chan 115

COYLA 1729 SEA 4.7 RADAR

RYBKA 507 ± I-TUC 1.4 RADAR

TIFYS 639 ± I-TUC 6 RADAR

ODBOE 4000 I-TUC 10.8 RADAR

LORIE 5000 I-TUC 13.7 RADAR

DME or RADAR REQUIRED




MSA SEA 25 NM
1000 MSL
2000 MSL

15 NM

#5000 to LORIE
026° (4) and
LOC (9.2)

Altitudes: 3149, 3504, 3517, 3700, 3921, 3981, 4382

Procedure NA for arrivals at CIDUG via V495 southbound.

 345°	SEA R-341 <u>116.8</u>	COYLA SEA <u>4.7</u> RADAR 2000	5000  SEA R-341 <u>12.4</u>	MGNUM SEA <u>12.4</u> RADAR	# When assigned by ATC, intercept glidepath at 4000 or 5000.	LORIE ODBOE I-TUC <u>13.7</u> TIFYS I-TUC I-TUC RADAR		606 A
---	------------------------------	--	--	--------------------------------------	---	--	---	----------

CATEGORY	A	B	C	D
S-ILS 34C	* 587/24 200 (200-½)			
S-LOC 34C	760/24 373 (400-½)			760/40 373 (400-¾)
SIDESTEP 34R	760/50 388 (400-1)		760/60 388 (400-1¼)	760-1¾ 388 (400-1¾)
CIRCLING	1000-1 567 (600-1)		1000-1½ 567 (600-1½)	1000-2 567 (600-2)

Diagram illustrating frequency offsets from FAF (Frequency Above Field) to various runways:

- TDZE 34L: +34L
- TDZE 34C: +34C
- TDZE 34R: +34R
- TDZE 372: +372
- HIRL all Rwy's: +AS
- TDZ/CL Rwy's 16L, 16C, 16R and 34R: +343° 6.1 NM from FAF
- FAF to MAP 5.6 NM

Knots: 60 90 120 150 180
Min:Sec: 5:36 3:44 2:48 2:14 1:52

DME or RADAR
REQUIRED

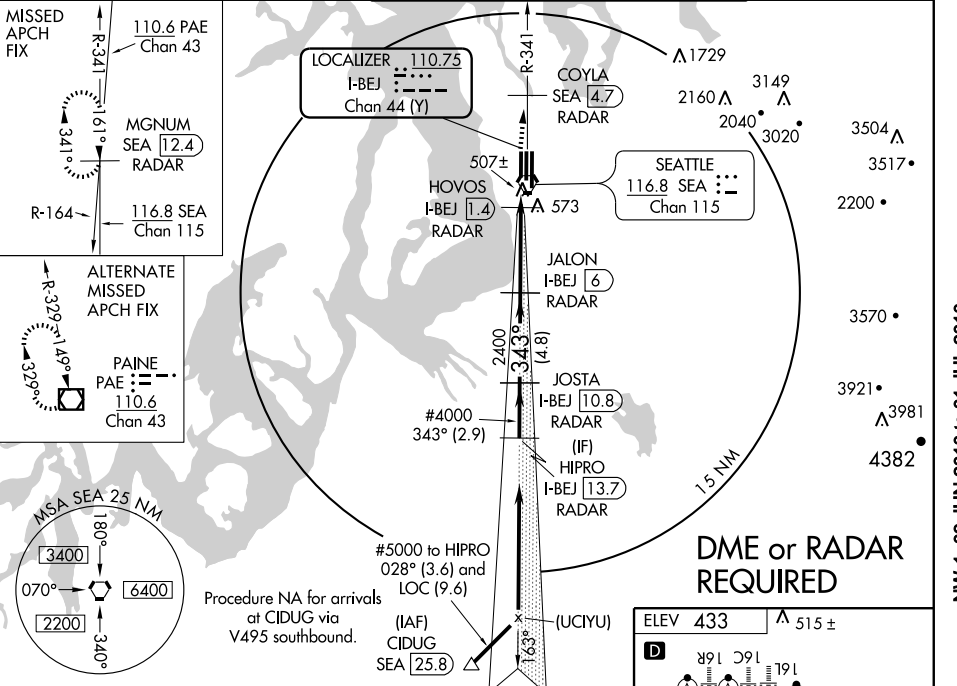
[illegible]

DME or RADAR required.
* RVR 1800 authorized with the use of
FD or AP or HUD to DA.

MALSRR

MISSED APPROACH: Climb heading 348° and SEA VORTAC R-341 to cross COYLA/SEA 4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-341 to MGNUM/SEA 12.4 DME/ RADAR and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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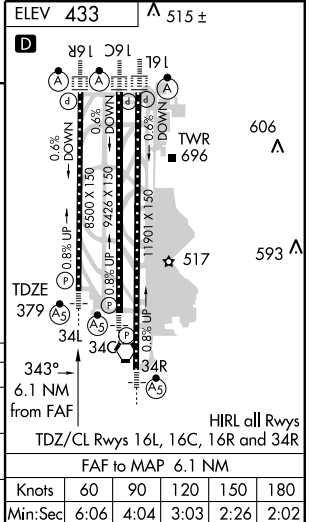


↑ 348°	SEA R-341 SEA 116.8 RADAR 2000	COYLA SEA 4.7 RADAR 2000	5000 ↑ SEA R-341	MGNUM SEA 12.4 RADAR	# When assigned by ATC, intercept glidepath at 5000 or 4000.	JOSTA I-BEJ 10.8 RADAR	HIPRO I-BEJ 13.7 RADAR	Procedure Turn NA
VGSI and ILS glidepath not coincident. † LOC only						JALON I-BEJ 6 RADAR		
						HOVOS I-BEJ 1.4 RADAR		
						I-BEJ 0.2	I-BEJ 0.9	
						920†	2400	343° 5000# 4000#
						1 NM	0.5	4.6 NM
								4.8 NM
								2.9 NM
								GS 3.00° TCH 55
CATEGORY	A B C D							
S-ILS 34L	* 579/24 200 (200-½)							
S-LOC 34L	760/24 381 (400-½)						760/40 381 (400-¾)	
CIRCLING	1000-1 567 (600-1)		1000-1½ 567 (600-1½)		1000-2 567 (600-2)			

343°
6.1 NM from FAF

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LOC/DME I-SEA 110.3 Chan 40	APP CRS 343°	Rwy 34R Idg TDZE Apt Elev 11901 372 433	Rwy 34C Idg TDZE Apt Elev 9426 387 433
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ILS or LOC RWY 34R

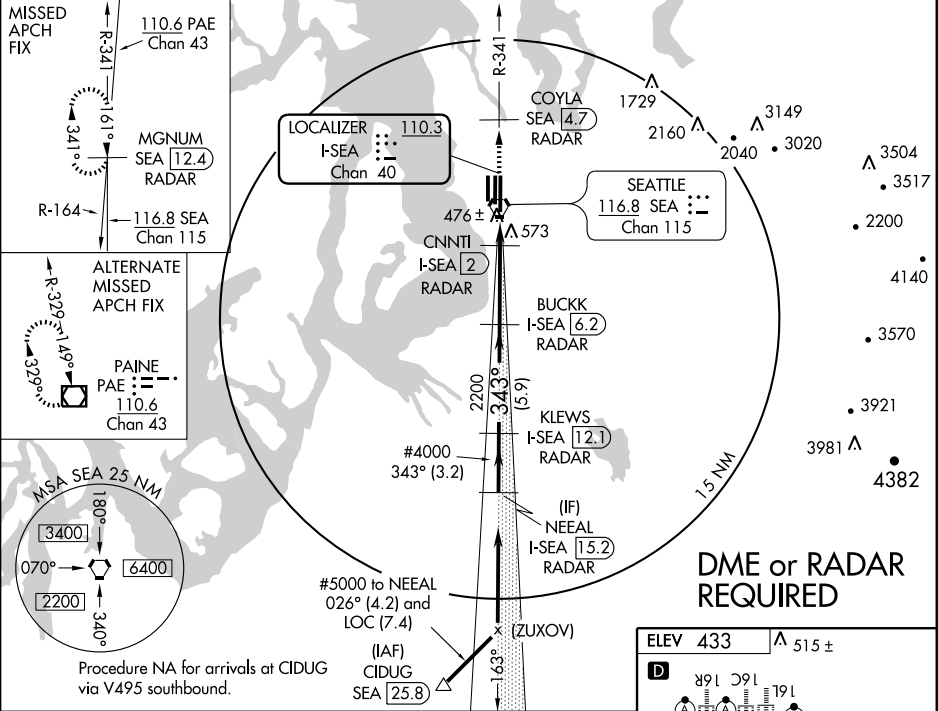
SEATTLE-TACOMA INTL (SEA)

Inoperative table does not apply to SIDESTEP 34C, Cats. A and B.
DME or RADAR required.

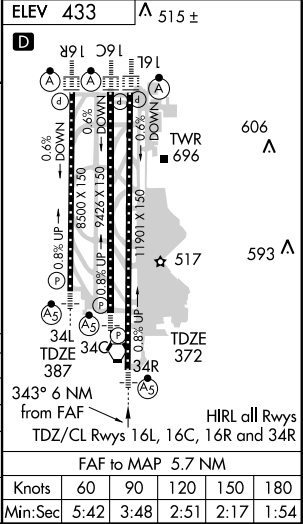
MALSR
Rwy 34R/C

MISSED APPROACH: Climb heading 341° and SEA VORTAC R-341 to cross COYLA/SEA 4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-341 to MGNUM/SEA 12.4 DME/RADAR and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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SEA R-341 116.8	COYLA SEA 4.7 RADAR 2000	5000 SEA R-341	MGNUM SEA 12.4 RADAR	Use I-SEA DME when on the localizer course. # When assigned by ATC, intercept glidepath at 4000 or 5000.
341°				NEEAL I-SEA 15.2 RADAR
VGSI and ILS glidepath not coincident.				BUCKK I-SEA 6.2 RADAR
*LOC only				KLEWS I-SEA 12.1 RADAR
				CNNTI I-SEA 2 RADAR
				I-SEA 1.2
				I-SEA 0.6
				900*
				2200
				4000#
				5000#
				GS 2.75°
				TCH 60
CATEGORY	A	B	C	D
S-ILS 34R		572/18	200 (200-½)	
S-LOC 34R		720/24	348 (300-½)	
SIDESTEP 34C		760/50	373 (400-1)	760-1½ 373 (400-1½)
CIRCLING	1000-1	567 (600-1)	1000-1½ 567 (600-1½)	1000-2 567 (600-2)



ILS RWY 16C (CAT II)

SEATTLE-TACOMA INTL (SEA)

LOC/DME I-SZI 111.7 Chan 54	APP CRS 163°	Rwy Idg TDZE Apt Elev	9426 430 433
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DME or RADAR required.

ALSF-2



MISSED APPROACH: Climb heading 160° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILIT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.

ATIS

118.0

SEATTLE APP CON

133.65 273.45

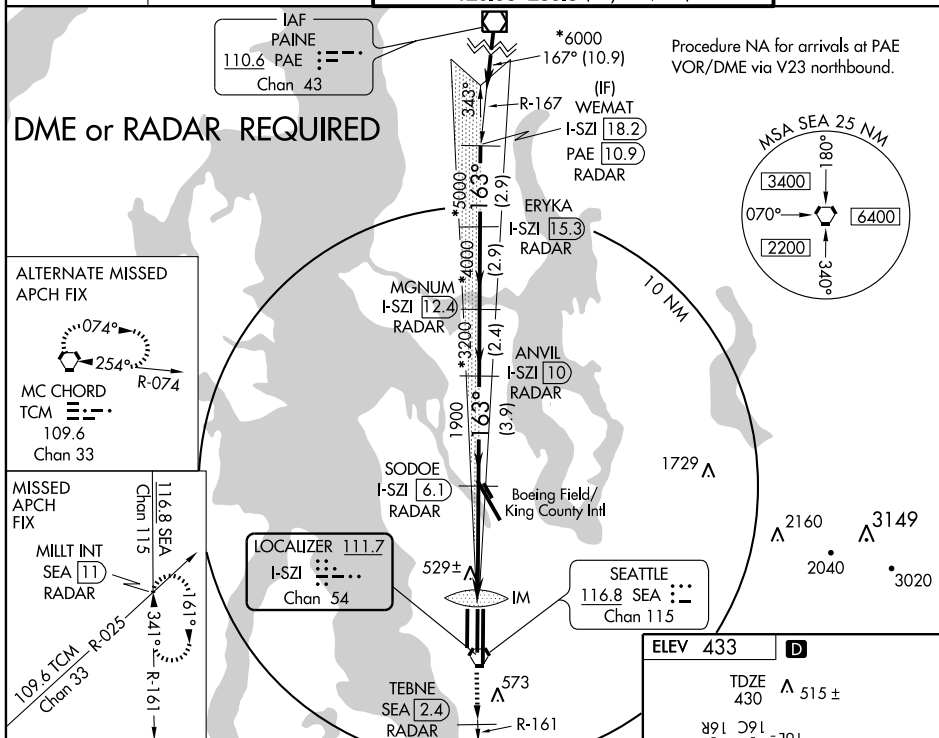
SEATTLE TOWER

119.9 239.3 (Rwys 16C/34C, 16L/34R)**120.95 239.3** (Rwy 16R/34L)

GND CON

121.7

DME or RADAR REQUIRED



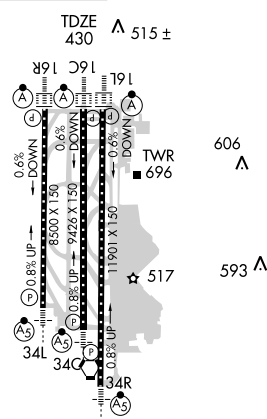
* When assigned by ATC, intercept glidepath at 3200 or 4000 or 5000 or 6000.

Procedure	WEMAT I-SZI 18.2 RADAR	ERYKA I-SZI 15.3 RADAR	MGNUM I-SZI 12.4 RADAR	ANVIL I-SZI 10 RADAR	SODOE I-SZI 6.1 RADAR	VGSI and ILS glidepath not coincident.	MILIT INT SEA 11 RADAR
*6000							
GS 3.00° TCH 57							
CATEGORY	A	B	C	D			
S-ILS 16C	RA 126/12 100 DA 530						

CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

ELEV 433

D



HIRL all Rwys
TDZ/CL Rwys 16L, 16C, 16R and 34R

LOC/DME F-SZ <u>111.7</u> Chan 54	APP CRS 163°	Rwy Idg 9426 TDZE 430 Apt Elev 433
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ILS RWY 16C (CAT III)
SEATTLE-TACOMA INTL (SEA)

DME or RADAR required.

ALSF-2

MISSED APPROACH: Climb heading 160° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILLT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.

ATIS
118.0


SEATTLE APP CON
133.65 273.45

SEATTLE TOWER
119.9 239.3 (Rwys 16C/34C, 16L/34R)
120.95 239.3 (Rwy 16R/34L)

GND CON
121.7

DME or RADAR REQUIRED
CATEGORY III SPECIAL
AUTOLAND EVALUATION
REQUIRED

ALTERNATE MISSED
APCH FIX

MC CHORD
TCM 
109.6
Chan 33

LOCALIZER 111
I-SZI $\frac{\cdot\cdot}{\cdot\cdot} - \dots$
Chan 54

SEATTLE
116.8 SEA : :
Chan 115

Procedure NA for arrivals at PAE
VOR/DME via V23 northbound.

ELEV 433	D
----------	---

TDZE Δ 515 ± 430

* When assigned by ATC, intercept glidepath at 3200 or 4000 or 5000 or 6000.

↑ 160°	SEA R-161 116.8	TEBNE SEA 2.4 RADAR 2000	5000 ↑ SEA R-161	MILLT INT SEA 11 RADAR
VIL ZI D AR	SODOE I-SZI 6.1 RADAR	VGSI and ILS glidepath not coincident.		
	↑	IM		430

HIRL all Rwys
TDZ/CL Rwys 16L, 16C, 16R and 34R

CATEGORY III ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

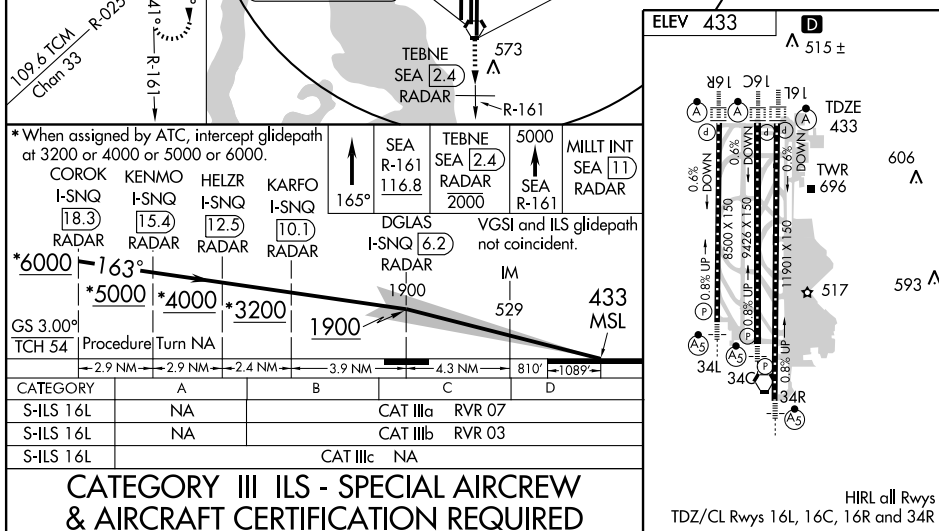
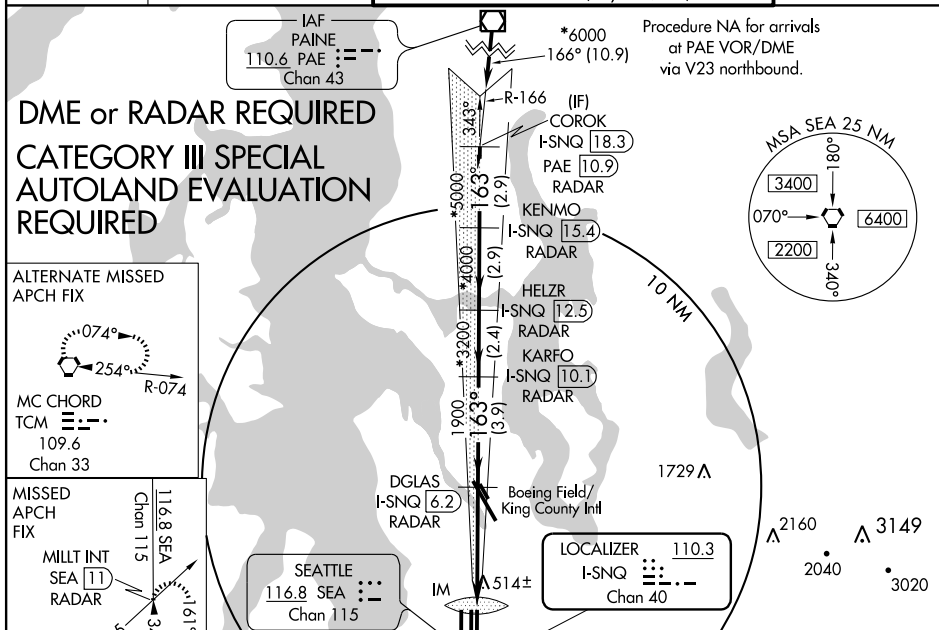
LOC/DME I-SNQ 110.3 Chan 40	APP CRS 163°	Rwy Idg 11901 TDZE 433 Apt Elev 433
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ILS RWY 16L (CAT III)

SEATTLE-TACOMA INTL (SEA)

▼ DME or RADAR required.	ALSF-2 	MISSED APPROACH: Climb heading 165° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.
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ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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ILS RWY 16R (CAT III)
SEATTLE-TACOMA INTL (SEA)

MISSED APPROACH: Climb heading 158° and SEA VORTAC R-161 to cross TEBNE/SEA 2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-161 to MILLT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.

119.9 239.3 (Rwys 16C/34C, 16L/34R)
120.95 239.3 (Rwy 16R/34L)

121.7

NW-1 03 JUN 2010 to 01 JUL 2010

— 100 —

TDZ/CL Rwys 16L, 16C, 16R and 34R HIRL all Rwys

LOC/DME I-TUC 111.7 Chan 54	APP CRS 343°	Rwy Idg TDZE Apt Elev 9426 387 433
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ILS RWY 34C (CAT II)

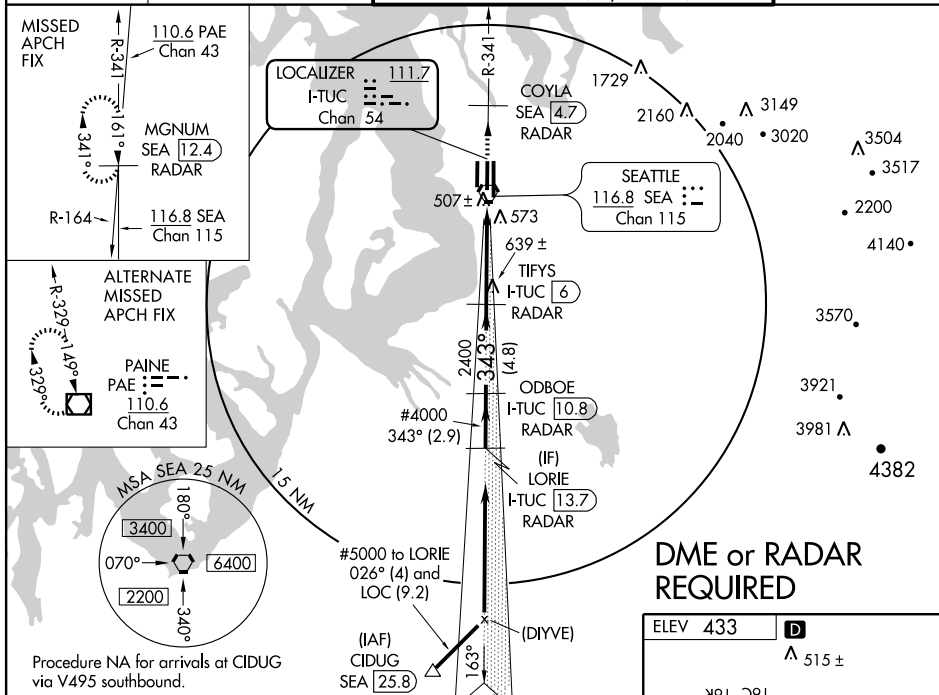
SEATTLE-TACOMA INTL (SEA)

Procedure does not meet ICAO standard for ALSF/TDZ/CL lighting systems. Authorization to conduct this approach requires specific OPSSPEC approval or LOA for this Rwy. DME or RADAR required.

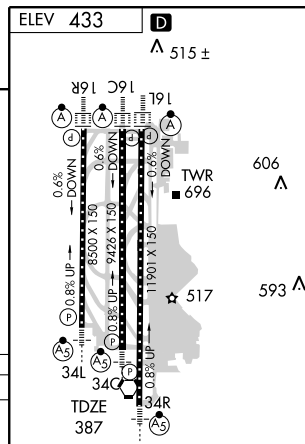


MISSED APPROACH: Climb heading 345° and SEA VORTAC R-341 to cross COYLA/SEA 4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-341 to MGNUM/SEA 12.4 DME/RADAR and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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SEA R-341 116.8	COYLA SEA 4.7 RADAR 2000	5000 SEA R-341	MGNUM SEA 12.4 RADAR	# When assigned by ATC, intercept glidepath at 4000 or 5000.	LORIE I-TUC 13.7 RADAR	Procedure Turn NA
345°					ODBOE I-TUC 10.8 RADAR	
					TIFYS I-TUC 6 RADAR	
					2400	
					343°	
					4000#	
					5000#	
					GS 3.00° TCH 56	
					2400	
					387 MSL	
					DH RA 133	
					900'	
					1303'	
					5.9 NM	
					4.8 NM	
					2.9 NM	
CATEGORY	A	B	C	D		
S-ILS 34C		RA 133/12	100	DA 487		



CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

HIRL all Rwys
TDZ/CL Rwys 16L, 16C, 16R and 34R

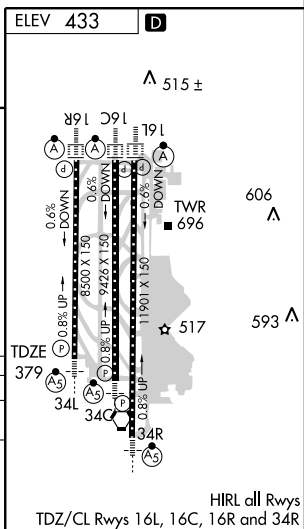
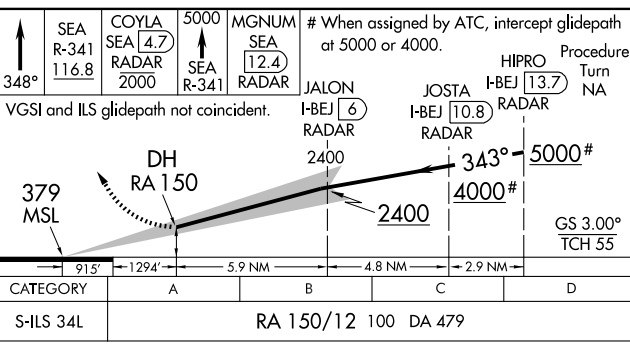
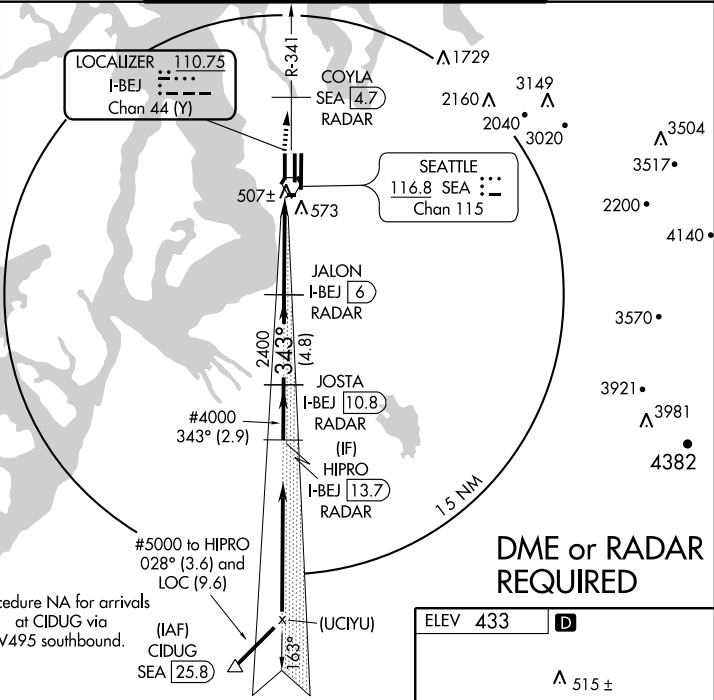
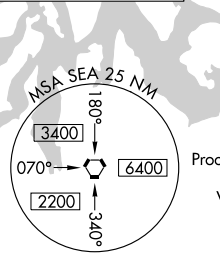
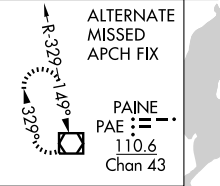
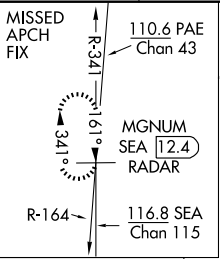
LOC/DME I-BEJ	APP CRS	Rwy Idg	8500
110.75	343°	TDZE	379
Chan 44 (Y)		Apt Elev	433

DME or RADAR required.
Procedure does not meet ICAO standard for ALSF/TDZ/CL lighting systems. Authorization to conduct this approach requires specific OPSSEC approval or LOA for this Rwy.



MISSED APPROACH: Climb heading 348° and SEA VORTAC R-341 to cross COYLA/SEA 4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-341 to MGNUM/SEA 12.4 DME/ RADAR and hold, continue climb-in-hold to 5000.

ATIS	SEATTLE APP CON	SEATTLE TOWER	GND CON
118.0	133.65 273.45	119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	121.7



CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

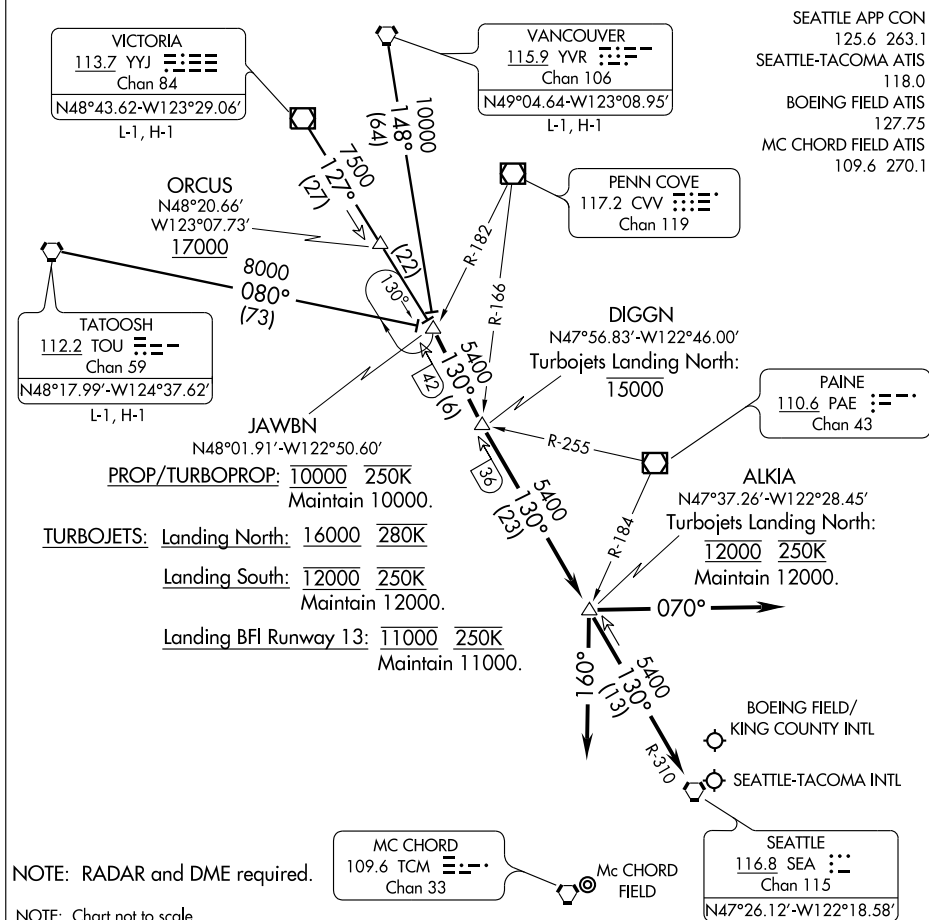
HIRL all Rwys
TDZ/CL Rwys 16L, 16C, 16R and 34R

MISSED APPROACH: Climb heading 341° and SEA VORTAC R-341 to cross COYLA/SEA 4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA VORTAC R-341 to MGNUM/SEA 12.4 DME/RADAR and hold, continue climb-in-hold to 5000.

DME or RADAR
REQUIRED

CATEGORY II ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED.

HIRL all Rwys
TDZ/CL Rwys 16L, 16C, 16R and 34R



TATOOSH TRANSITION (TOU.JAWBN1): From over TOU VORTAC via TOU R-080 to JAWBN INT. Thence....

VANCOUVER TRANSITION (YVR.JAWBN1): From over YVR VORTAC via YVR R-148 to JAWBN INT. Thence....

VICTORIA TRANSITION (YYJ.JAWBN1): From over YYJ VOR/DME via YYJ R-127 to JAWBN INT. Thence....

....From over JAWBN INT/SEA 42 DME via SEA R-310 to DIGGN/SEA 36 DME then via SEA R-310 to ALKIA INT/SEA 13 DME, thence....

LANDING NORTH: Depart ALKIA INT heading 160° for vectors to final approach course.

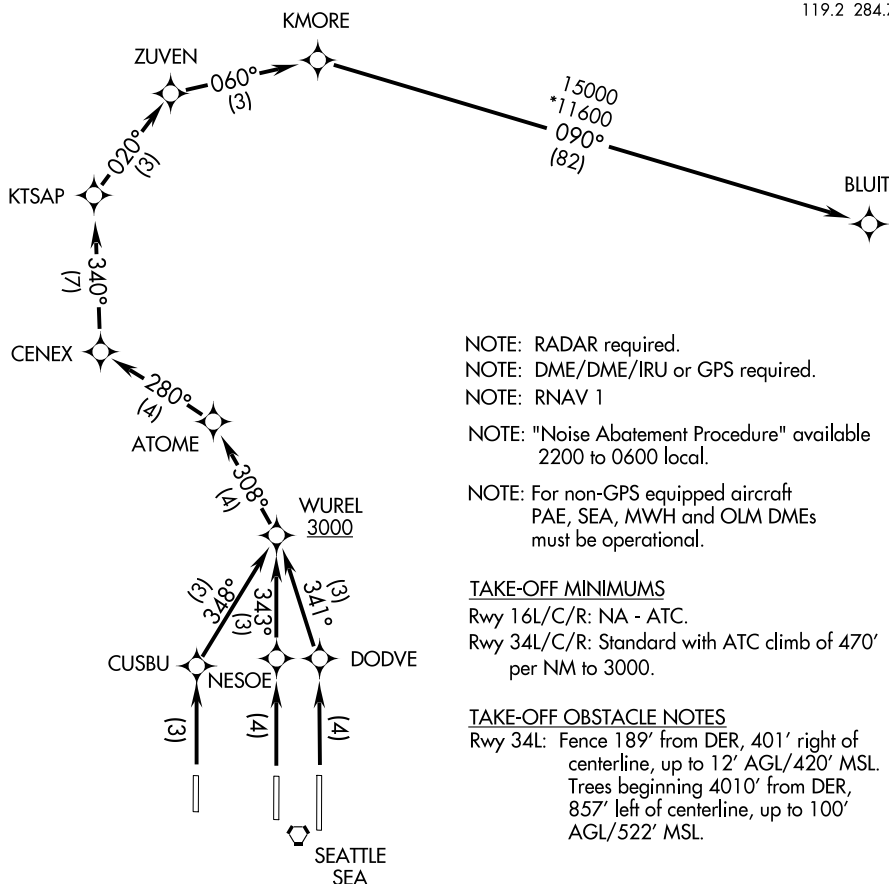
LANDING SOUTH: Depart ALKIA INT heading 070° for vectors to final approach course.

LANDING McCHORD FIELD: After ALKIA INT proceed direct SEA VORTAC.

LOST COMMUNICATIONS: After ALKIA INT proceed direct SEA VORTAC.

KMORE TWO DEPARTURE (RNAV)

ATIS
118.0
SEATTLE DEP COM
119.2 284.7



NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34L: Climb direct CUSBU, then via 348° track to cross WUREL at or above 3000, then via depicted route to BLUIT, thence. . .

TAKE-OFF RUNWAY 34C: Climb direct NESOE, then via 343° track to cross WUREL at or above 3000, then via depicted route to BLUIT, thence. . .

TAKE-OFF RUNWAY 34R: Climb direct DODVE, then via 341° track to cross WUREL at or above 3000, then via depicted route to BLUIT, thence. . .

TAKE-OFF RUNWAY 34L: Climb direct CUSBU, then via 348° track to cross WUREL at or above 3000, then via depicted route to BLUIT, thence. . .

TAKE-OFF RUNWAY 34C: Climb direct NESOE, then via 343° track to cross WUREL at or above 3000, then via depicted route to BLUIT, thence. . .

TAKE-OFF RUNWAY 34R: Climb direct DODVE, then via 341° track to cross WUREL at or above 3000, then via depicted route to BLUIT, thence. . .

. . . via assigned route. Maintain assigned altitude, expect filed altitude/flight level 15 NM from SEA VORTAC.

KTSAP THREE DEPARTURE (RNAV)

ATIS

118.0

SEATTLE DEP CON

119.2 284.7

TATOOSH
TOU15000
*9400
274°
(93)

KTSAP

340°
(7)

CENEX

280°
(4)

ATOME

WUREL
3000308°
(4)

CUSBU

348°
(3)

NESOE

343°
(3)

DODVE

341°
(3)SEATTLE
SEA

NOTE: RADAR required.

NOTE: DME/DME/IRU or GPS required.

NOTE: RNAV 1

NOTE: "Noise Abatement Procedure" available
2200 to 0600 local.NOTE: For non-GPS equipped aircraft PAE DME
must be operational.

TAKE-OFF MINIMUMS

Rwy 16L/C/R: NA - ATC.

Rwy 34L/C/R: Standard with ATC climb of
470' per NM to 3000.

TAKE-OFF OBSTACLE NOTES

Rwy 34L: Fence 189' from DER, 401' right of centerline,
up to 12' AGL/420' MSL. Trees beginning
4010' from DER, 857' left of centerline, up to
100' AGL/522' MSL.

NOTE: Chart not to scale.

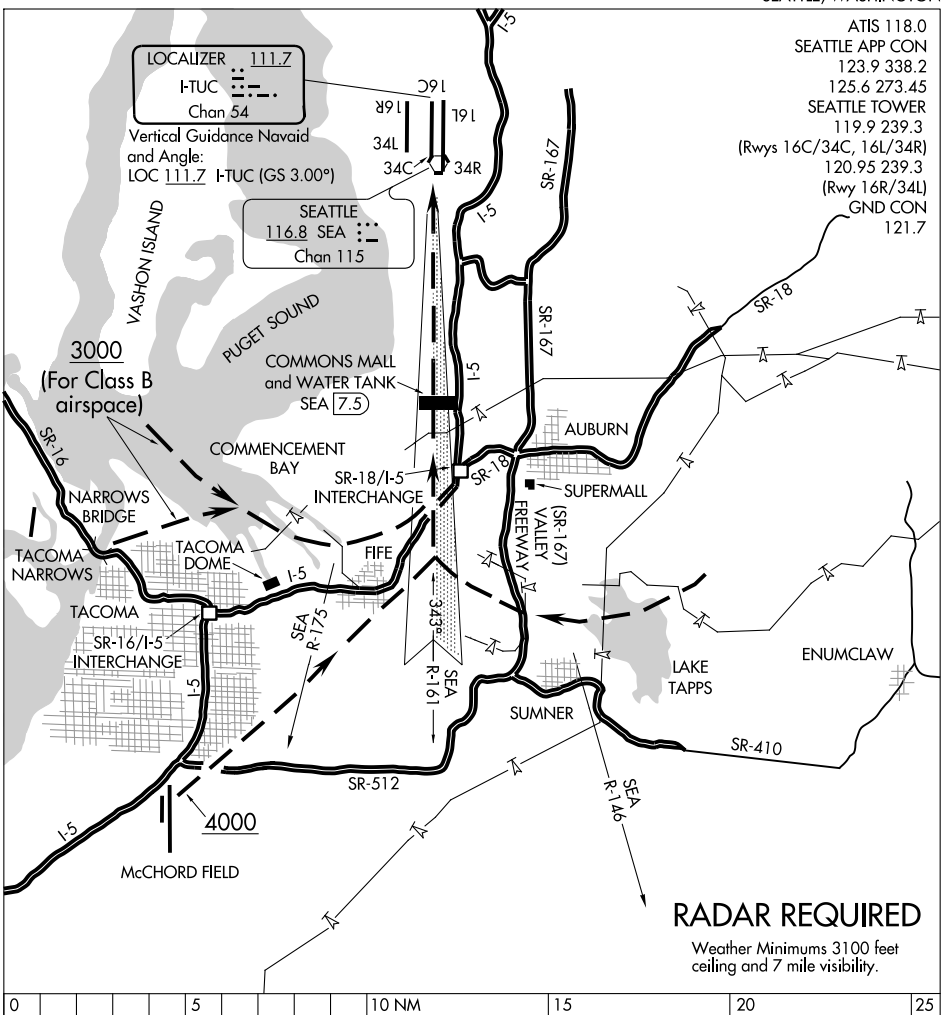
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34L: Climb direct CUSBU, then via 348° track to cross WUREL at or above 3000, then via depicted route to TOU VORTAC, thence. . .TAKE-OFF RUNWAY 34C: Climb direct NESOE, then via 343° track to cross WUREL at or above 3000, then via depicted route to TOU VORTAC, thence. . .TAKE-OFF RUNWAY 34R: Climb direct DODVE, then via 341° track to cross WUREL at or above 3000, then via depicted route to TOU VORTAC, thence. via assigned route. Maintain assigned altitude, expect filed altitude/flight level
15 NM from SEA VORTAC.

MALL VISUAL RWY 34C

AL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)
SEATTLE, WASHINGTON

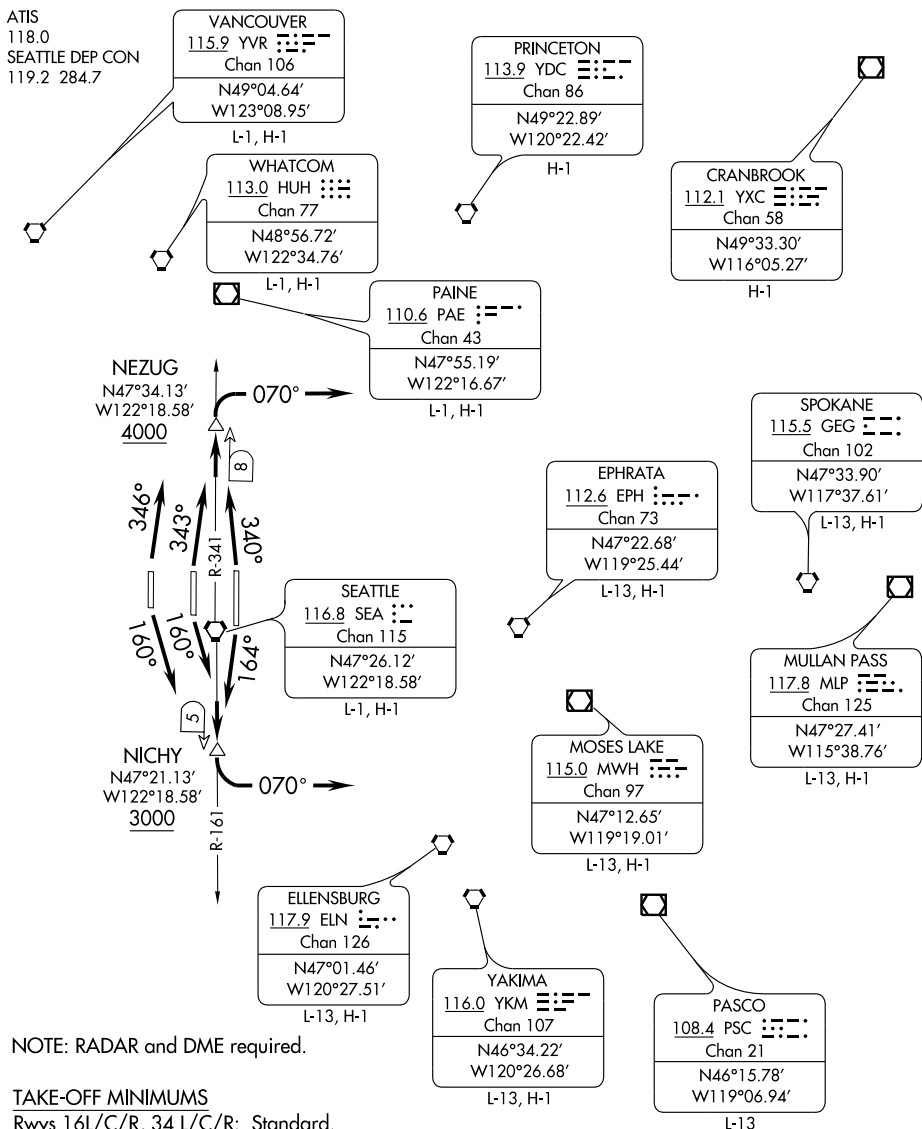


MALL VISUAL APPROACH RWY 34C

When the ceiling is at least 3100' and visibility is at least 7 miles, aircraft may be vectored towards Commencement Bay or McChord Field or Lake Tapps for a Mall Visual Runway 34C Approach. When cleared for this approach; proceed inbound visually using the depicted landmarks to the centerline of runway 34C as assigned. Turn final before or over the interchange of State Road 18 (SR-18) and Interstate 5. Be established on the localizer or runway centerline at the Commons Mall and Water Tank (7.5 DME) and proceed visually to runway 34C.

MOUNTAIN SIX DEPARTURE

SL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)
SEATTLE, WASHINGTON

(NARRATIVE ON FOLLOWING PAGE)

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16L: Climb heading 164° and SEA R-161 to cross NICHY at or above 3000, then left turn heading 070° for radar vectors to assigned route, thence. . . .

TAKE-OFF RUNWAYS 16C/R: Climb heading 160° and SEA R-161 to cross NICHY at or above 3000, then left turn heading 070° for radar vectors to assigned route, thence. . . .

TAKE-OFF RUNWAY 34L: Climb heading 346° and SEA R-341 to cross NEZUG at or above 4000, then right turn heading 070° for radar vectors to assigned route, thence. . . .

TAKE-OFF RUNWAY 34C: Climb heading 343° and SEA R-341 to cross NEZUG at or above 4000, then right turn heading 070° for radar vectors to assigned route, thence. . . .

TAKE-OFF RUNWAY 34R: Climb heading 340° and SEA R-341 to cross NEZUG at or above 4000, then right turn heading 070° for radar vectors to assigned route, thence. . . .

. . . .Maintain assigned altitude, expect filed altitude/flight level 15 NM from SEA.

LOST COMMUNICATIONS: If no contact with ATC leaving 4000', proceed direct SEA VORTAC, then proceed on course.

TAKE-OFF OBSTACLE NOTES

Rwy 16L: Trees beginning 2908' from DER, 1064' right of centerline, up to 100' AGL/476' MSL.

Rwy 16C: Trees beginning 4477' from DER, 484' right of centerline, up to 100' AGL/507' MSL.

Rwy 16R: Trees, antenna on building and light pole beginning 488' from DER, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from DER, 587' right of centerline, up to 100' AGL/468' MSL.

Rwy 34L: Fence 189' from DER, 401' right of centerline, up to 12' AGL/468' MSL.

Trees beginning 4010' from DER, 857' left of centerline, up to 100' AGL/522' MSL.

OLYMPIA SIX ARRIVAL

ST-582 (FAA)

SEATTLE, WASHINGTON

SEATTLE APP CON

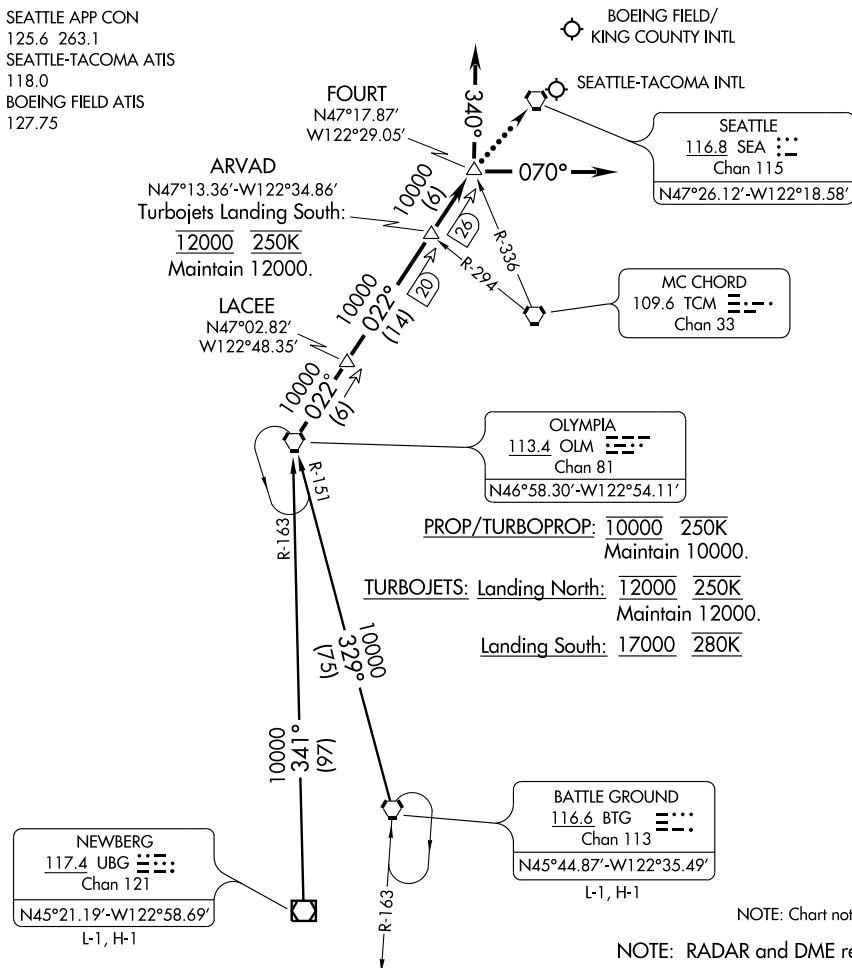
125.6 263.1

SEATTLE-TACOMA ATIS

118.0

BOEING FIELD ATIS

127.75



BATTLE GROUND TRANSITION (BTG.OLM6): From over BTG VORTAC via BTG R-329 and OLM R-151 to OLM VORTAC. Thence....

NEWBERG TRANSITION (UBG.OLM6): From over UBG VOR/DME via UBG R-341 and OLM R-163 to OLM VORTAC. Thence....

....From over OLM VORTAC via OLM R-022 to LACEE/OLM 6 DME, then via OLM R-022 to ARVAD INT/OLM 20 DME, then via OLM R-022 to FOURT INT/OLM 26 DME, thence...

LANDING NORTH: Depart FOURT INT/OLM 26 DME heading 070° for vectors to final approach course.

LANDING SOUTH: Depart FOURT INT/OLM 26 DME heading 340° for vectors to final approach course.

LOST COMMUNICATIONS: From over FOURT INT/OLM 26 DME, proceed direct SEA VORTAC.

WAAS CH 61010 W16B	APP CRS 163°	Rwy Idg 9426 TDZE 430 Apt Elev 433
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RNAV (GPS) RWY 16C

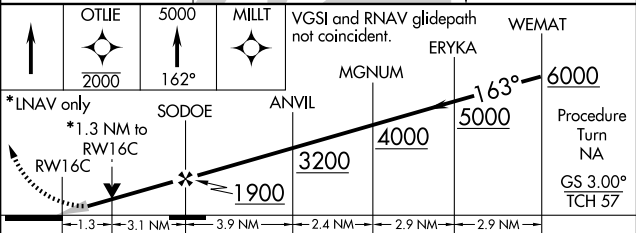
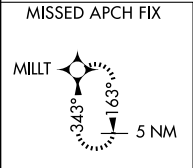
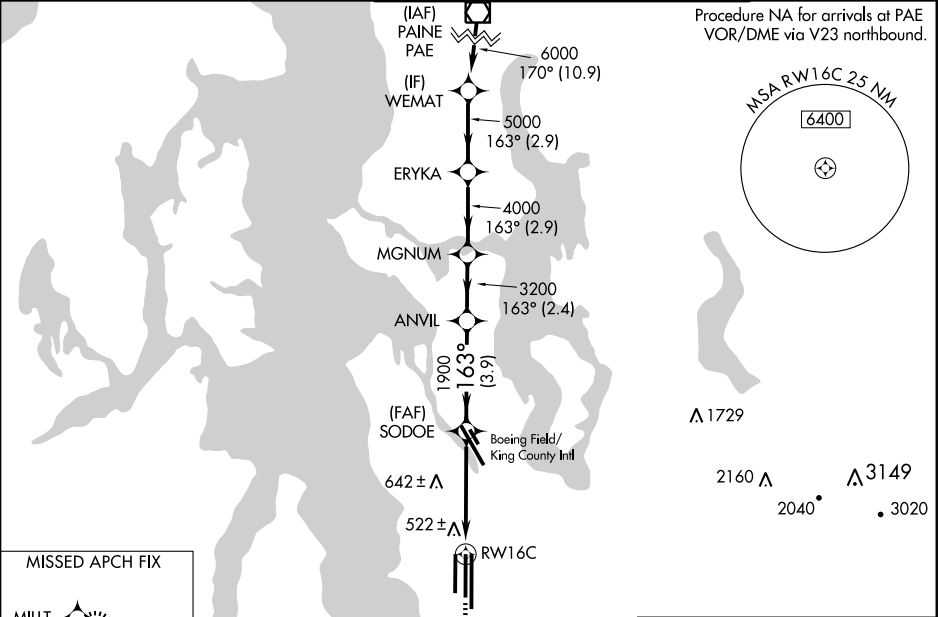
SEATTLE-TACOMA INTL (SEA)

▲ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 47°C (116°F).
DME/DME RNP-0.3 NA.
See additional requirements on adjacent information page.

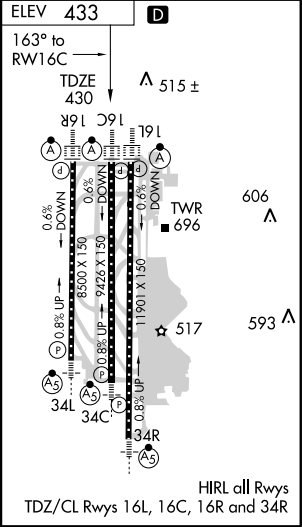
ALSF-2

MISSED APPROACH: Climb direct OTLIE to cross OTLIE at or below 2000, then climb to 5000 via track 162° to MILLT and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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CATEGORY	A	B	C	D
LPV DA		630/24	200 (200-1/2)	
LNAV/VNAV DA		811/40	381 (400-3/4)	
LNAV MDA	920/24	490 (500-1/2)	920/40 490 (500-3/4)	920/50 490 (500-1)
CIRCLING	1000-1	567 (600-1)	1000-1 1/2 567 (600-1 1/2)	1000-2 567 (600-2)



SEATTLE-TACOMA INTL AIRPORT**ALERT NOTICE****ATTENTION ALL AIRCRAFT LANDING TO THE SOUTH:**

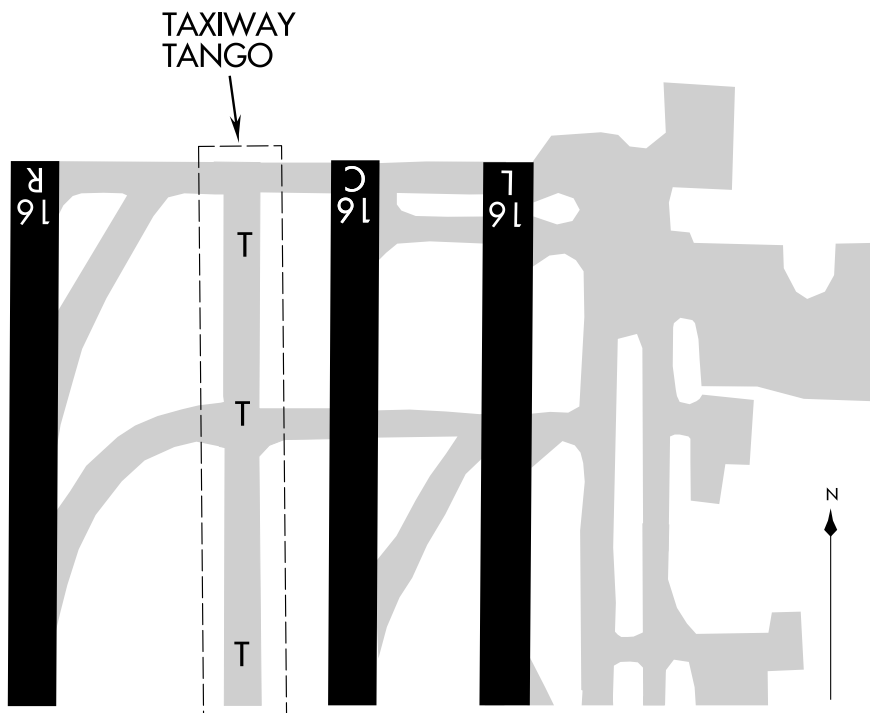
When transitioning from an instrument procedure to a visual approach to Runway 16C, verify you are aligned for the intended landing Runway, not Taxiway Tango. Taxiway Tango is west and parallel to Runway 16C.

TRANSITION TO VISUAL:

Taxiway Tango has been mistaken for Runway 16C from the air during certain visibility conditions, i.e., wet runway, low sun angle reflections. Aircrews are advised to be aware of the proximity of the taxiway to Runway 16C and its runway-like appearance while on approach.

RECOMMENDATION:

Aircrews should use visual cues, e.g., approach lighting systems, REILs, when available, to confirm alignment with Runway 16C not Taxiway Tango. Additionally, it is recommended when executing a segment of the ILS approach for a visual transition, track the localizer until the runway environment is visually verified.



RNAV (GPS) RWY 16L

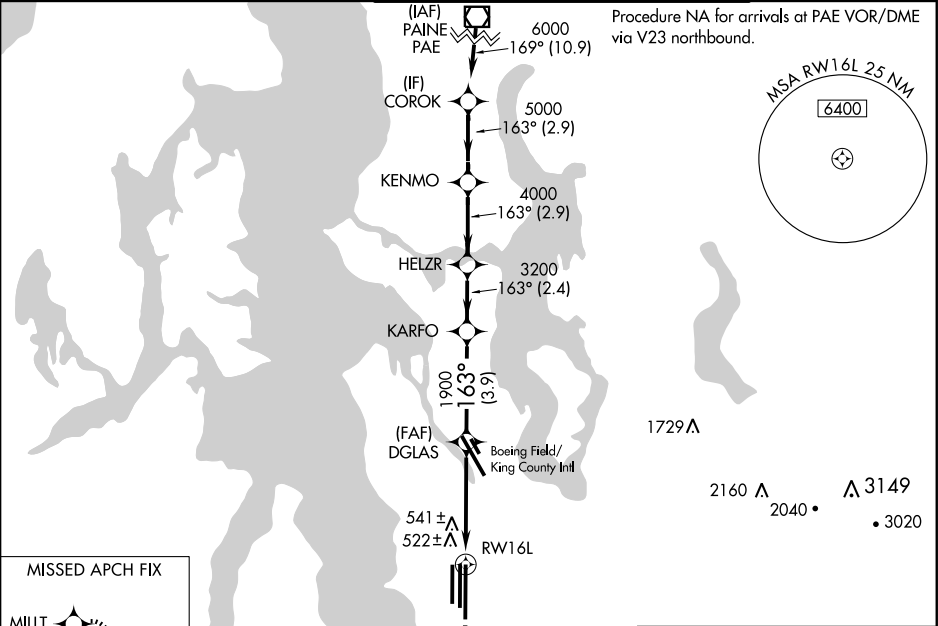
SEATTLE-TACOMA INTL (SEA)

WAAS CH 63202 W16A	APP CRS 163°	Rwy Idg 11901 TDZE 433 Apt Elev 433
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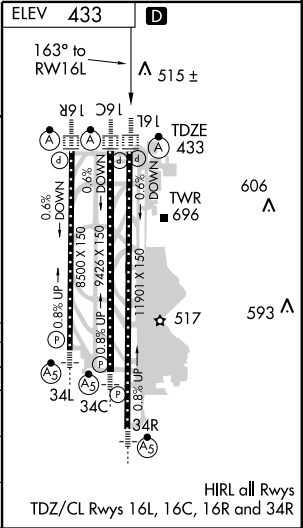
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 47°C (116°F).
DME/DME RNP -0.3 NA. For inoperative ALSF-2, increase LPV all Cats. visibility to RVR 5000.

ALSF-2
MISSED APPROACH: Climb direct CAVOB to cross CAVOB at or below 2000, then climb to 5000 via track 163° to MILLT and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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MISSIED APCH FIX	
MILLT 343° 163° 5 NM	
CAVOB 2000	5000 163°
VGSI and RNAV glidepath not coincident.	
COROK 6000 163°	
KENMO 5000	
HELZR 4000	
KARFO 3200	
DGLAS 1900	
RW16L 1.3 3.1 NM 3.9 NM 2.4 NM 2.9 NM 2.9 NM	
* LNAV only * 1.3 NM to RW16L	
Procedure Turn NA GS 3.00° TCH 54	
CATEGORY	A B C D
LPV DA	729/24 296 (300-½)
LNAV/VNAV DA	811/40 378 (400-¾)
LNAV MDA	920/24 487 (500-½) 920/40 487 (500-¾) 920/50 487 (500-1)
CIRCLING	1000-1 567 (600-1) 1000-1½ 567 (600-1½) 1000-2 567 (600-2)



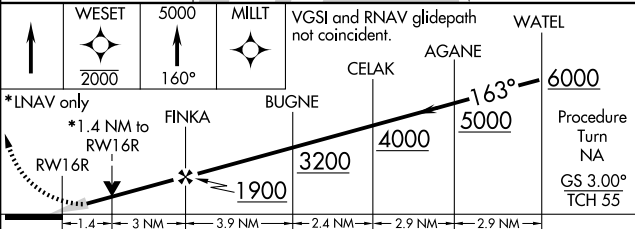
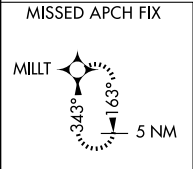
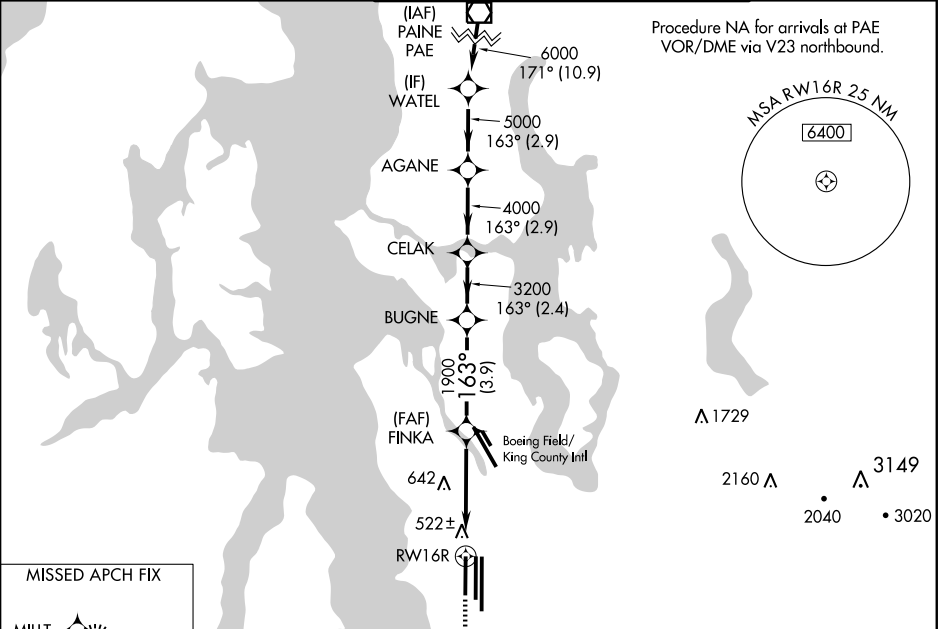
WAAS CH 86910 W16D	APP CRS 163°	Rwy Idg 8500 TDZE 415 Apt Elev 433
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RNAV (GPS) RWY 16R

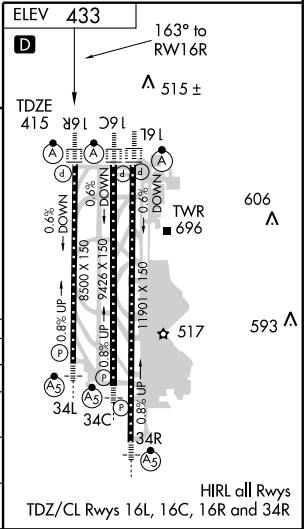
SEATTLE-TACOMA INTL (SEA)

▽ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 47°C (116°F). DME/DME RNP-0.3 NA.	ALSF-2 	MISSED APPROACH: Climb direct WESET to cross WESET at or below 2000, then climb to 5000 via track 160° to MILT and hold, continue climb-in-hold to 5000.
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ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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CATEGORY	A	B	C	D
LPV DA		615/24	200 (200-1/2)	
LNAV/VNAV DA		808/40	393 (400-3/4)	
LNAV MDA	920/24	505 (500-1/2)	920/50	505 (500-1)
CIRCLING	1000-1	567 (600-1)	1000-1 1/2 567 (600-1 1/2)	1000-2 567 (600-2)



For inoperative MALS, increase LPV all Cats. visibility to RVR 6000. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP -0.3 NA.

MALS

MISSED APPROACH: Climb direct NESOE to cross NESOE at or below 2000, then climb to 5000 via track 343° to MGNUM and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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Procedure NA for arrivals at CIDUG via V495 southbound.

NESOE

5000

MGNUM

↑

2000

343°

* LNAV only

* 1.5 NM to RWY 34C

1.5 NM

4.6 NM

4.8 NM

2.9 NM

VGSI and RNAV glidepath not coincident.

ORIE

Procedure Turn NA

5000

GS 3.00°

TCH 56

CATEGORY	A	B	C	D
LPV	DA	741/40	354 (400-¾)	
LNAV/VNAV	DA	790/50	403 (400-1)	
LNAV MDA	900/24	513 (500-½)	900/50 513 (500-1)	900/60 513 (500-1¼)
CIRCLING	1000-1	567 (600-1)	1000-1½ 567 (600-1½)	1000-2 567 (600-2)

ELEV 433

16R

16C

16L

34L

34C

34R

0.6% DOWN

0.8% UP

0.6% DOWN

0.8% UP

TDZE 387

343° to RWY 34C

515±

606

593

517

696

HIRL all Rwys
TDZ/CL Rwys 16L, 16C, 16R and 34R

NW-1. 03 JUN 2010 to 01 JUL 2010

RNAV (GPS) RWY 34L

SEATTLE-TACOMA INTL (SEA)

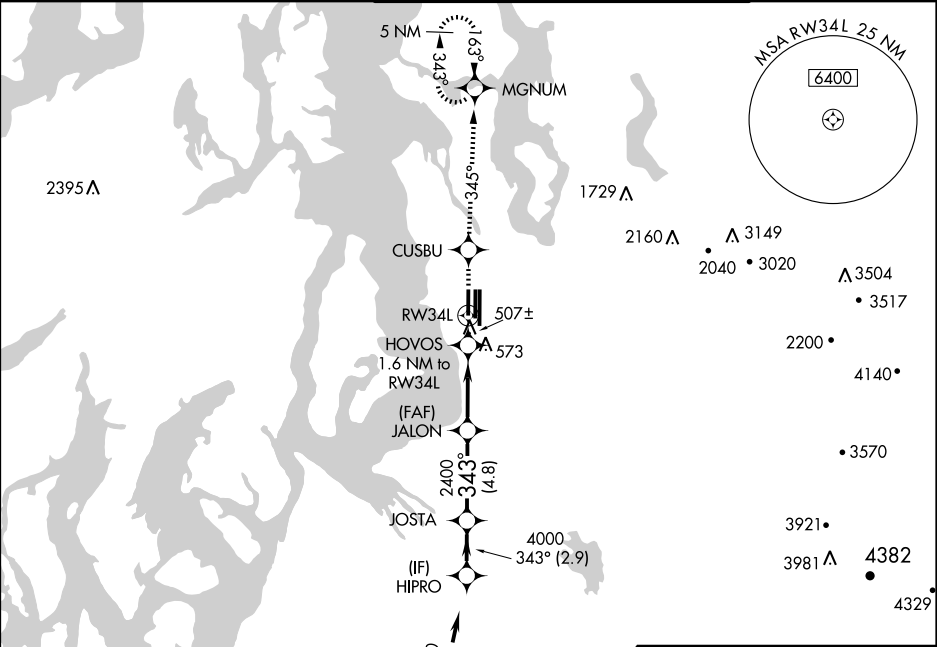
WAAS CH 45810 W34D	APP CRS 343°	Rwy Idg TDZE Apt Elev	8500 379 433
--	------------------------	-----------------------------	---

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP -0.3 NA.

MALSR

MISSED APPROACH: Climb direct CUSBU to cross CUSBU at or below 2000, then climb to 5000 via track 345° to MGNUM and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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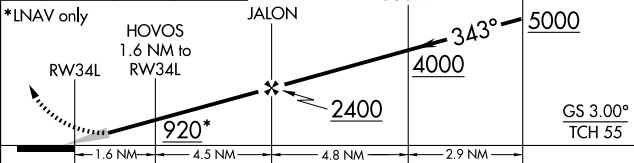


Procedure NA for arrivals at CIDUG via V495 southbound.

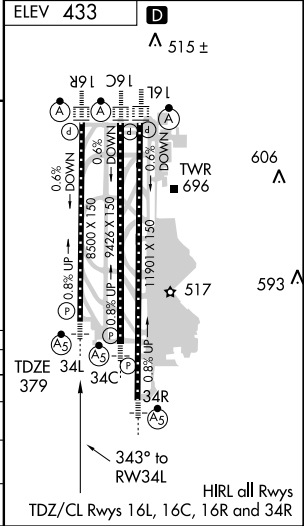
CUSBU 2000 **5000** **MGNUM**

↑ 345°

VGSI and RNAV glidepath not coincident. Procedure Turn NA



CATEGORY	A	B	C	D
LPV DA	579/24		200 (200-½)	
LNAV/VNAV DA	792/50		413 (400-1)	
LNAV MDA	860/24	481 (500-½)	860/40 481 (500-¾)	860/50 481 (500-1)
CIRCLING	1000-1	567 (600-1)	1000-1½ 567 (600-1½)	1000-2 567 (600-2)



WAAS
CH 42710
W34A

APP CRS
343°

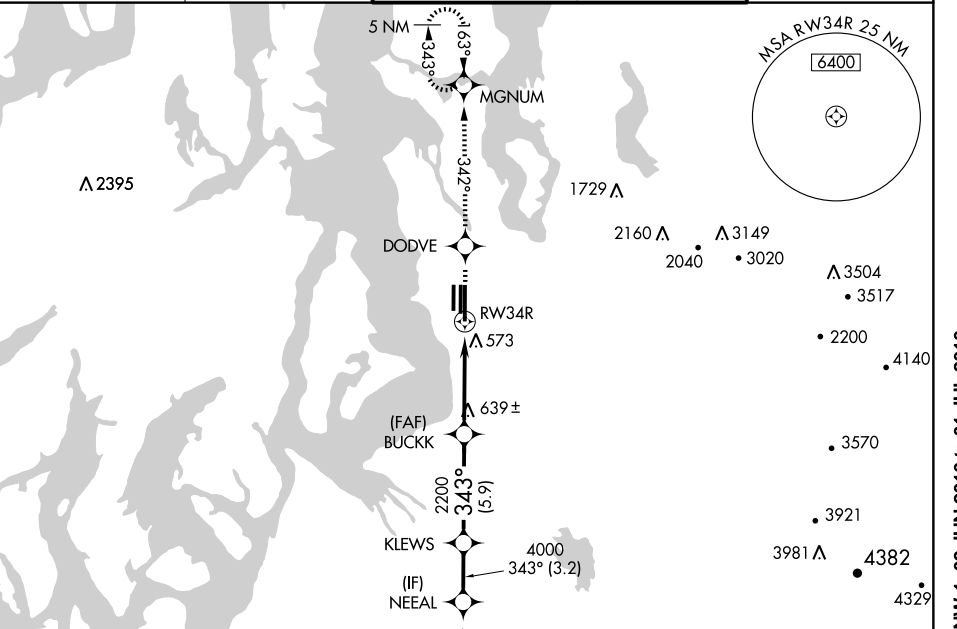
Rwy Idg 11901
TDZE 372
Apt Elev 433

For inoperative MALS, increase LPV all Cats. visibility to RVR 5000. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -1.5°C (5°F) or above 54°C (130°F). DME/DME RNP -0.3 NA.

MALS

MISSED APPROACH: Climb direct DODVE to cross DODVE at or below 2000, then climb to 5000 via track 342° to MGNUM and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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Procedure NA for arrivals at CIDUG via V495 southbound.

DODVE

5000

MGNUM

VGSI and RNAV glidepath not coincident.

Procedure

↑

2000

342°

1.6 NM to RW34R

343°

4.4 NM

2200

5.9 NM

4000

3.2 NM

5000

GS 2.75° TCH 60

CATEGORY	A	B	C	D
LPV DA	622/24 250 (200-½)			
LNAV/VNAV DA	869-1½ 497 (500-1½)			
LNAV MDA	900/24 528 (500-½)	900/50 528 (500-1)	900/60 528 (500-1¼)	
CIRCLING	1000-1 567 (600-1)	1000-1½ 567 (600-1½)	1000-2 567 (600-2)	

ELEV 433

891

515 ±

191

606

517

593

696

TDZE 372

343° to RW34R

TDZ/CL Rwys 16L, 16C, 16R and 34R

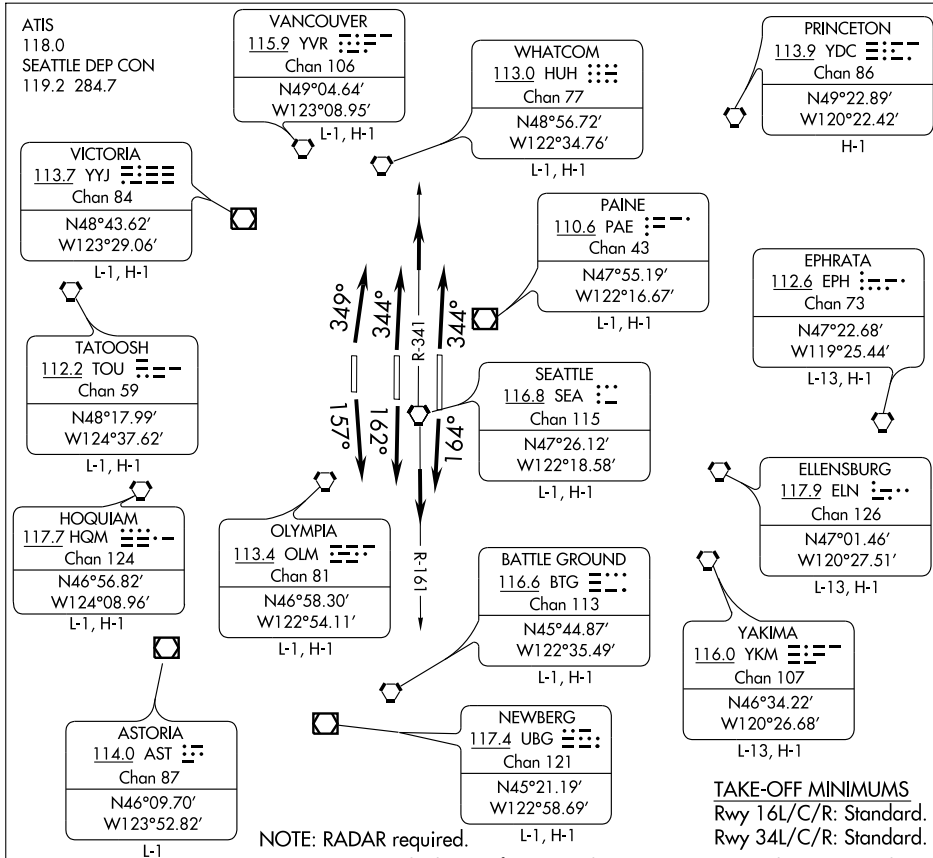
NW-1. 03 JUN 2010 to 01 JUL 2010

SEATTLE FOUR DEPARTURE

SL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)

SEATTLE, WASHINGTON



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34L: Climb heading 349° and SEA R-341, thence. . .TAKE-OFF RUNWAY 34C/R: Climb heading 344° and SEA R-341, thence. . .TAKE-OFF RUNWAY 16L: Climb heading 164° and SEA R-161, thence. . .TAKE-OFF RUNWAY 16C: Climb heading 162° and SEA R-161, thence. . .TAKE-OFF RUNWAY 16R: Climb heading 157° and SEA R-161, thence. . .

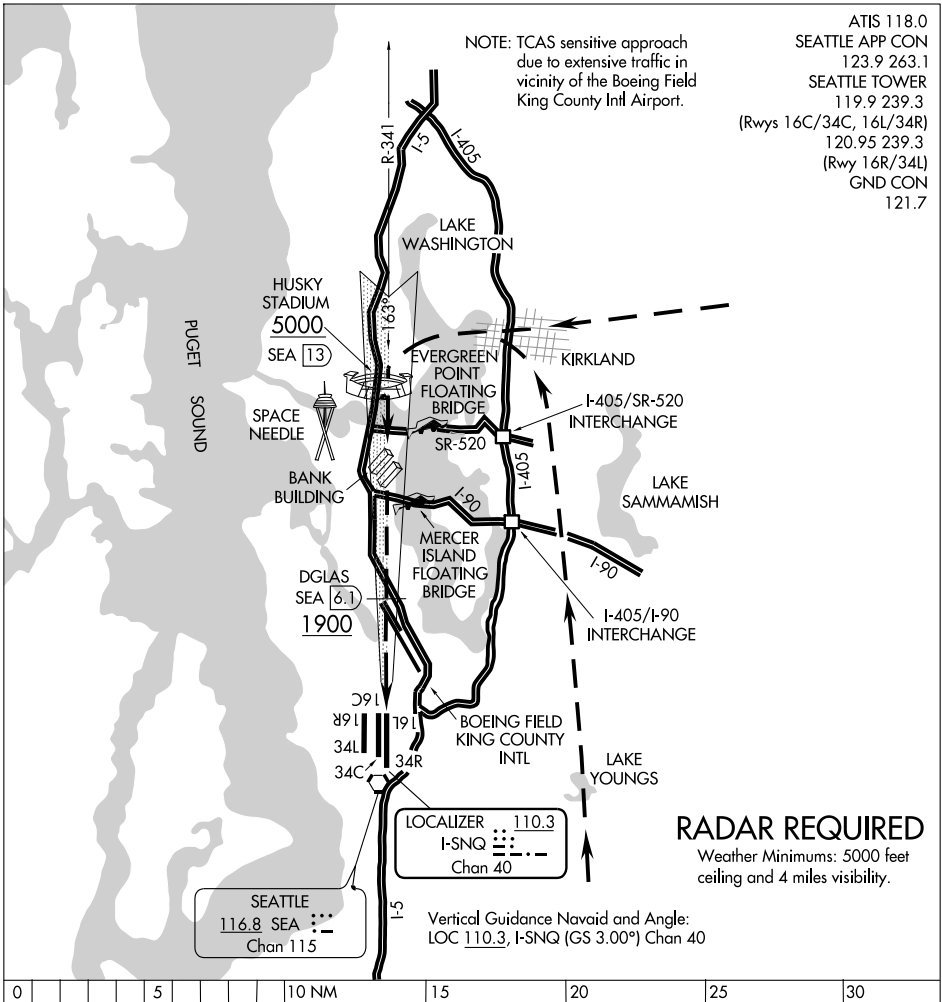
. . . Maintain assigned altitude, expect radar vectors to assigned route.

STADIUM VISUAL RWY 16L

AL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)

SEATTLE, WASHINGTON



STADIUM VISUAL APPROACH RWY 16L

When the ceiling is at least 5000' and visibility is at least 4 miles, aircraft may be vectored over Kirkland or Lake Youngs for a Stadium Visual Runway 16L Approach. When cleared for a Stadium Visual Approach; proceed inbound visually over Husky Stadium (via route depicted); intercept the Runway 16L localizer/SEA R-341 at 13 DME and complete a straight in visual approach to the airport.

SUMMA SEVEN DEPARTURE

SL-582 (FAA)

SEATTLE-TACOMA INTL (SEA)
SEATTLE, WASHINGTON

ATIS
118.0
SEATTLE DEP CON
119.2 284.7

NEZUG
N47°34.12'
W122°18.58'
4000

PAINE
110.6 PAE
Chan 43

TAKE-OFF MINIMUMS

Rwys 16L/C/R: Standard.

Rwys 34L/C/R: Standard with minimum climb of 580' per NM to 4000 (ATC).

TAKE-OFF OBSTACLE NOTES

Rwy 16L: Trees beginning 2908' from DER, 1064' right of centerline, up to 100' AGL/476' MSL.

Rwy 16C: Trees beginning 4477' from DER, 484' right of centerline, up to 100' AGL/507' MSL.

Rwy 16R: Trees, antenna on building and light pole beginning 488' from DER, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from DER, 587' right of centerline, up to 100' AGL/468' MSL.

Rwy 34L: Fence 189' from DER, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from DER, 857' left of centerline, up to 100' AGL/522' MSL.

NEVJO
N47°15.13'
W122°18.58'

OLYMPIA
113.4 OLM
Chan 81

SUMMA
N46°37.07'
W121°59.30'

BAKER CITY
115.3 BKE
Chan 100
N44°50.44' W117°48.47'
L-13, H-1

LAKEVIEW
112.0 LKV
Chan 57
N42°29.57' W120°30.43'
L-11, H-3

NOTE: RADAR and DME required.

NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34L: Climb heading 346° and SEA R-341, thence. . .TAKE-OFF RUNWAY 34C: Climb heading 343° and SEA R-341, thence. . .TAKE-OFF RUNWAY 34R: Climb heading 342° and SEA R-341, thence. . .

. . .to cross NEZUG at or above 4000, then right turn heading 070° to cross the PAE R-139, then right turn heading 165° to intercept SEA R-146 to SUMMA INT, then via assigned transition.

TAKE-OFF RUNWAYS 16L/C: Climb heading 163° and SEA R-161, thence. . .TAKE-OFF RUNWAY 16R: Climb heading 161° and SEA R-161, thence. . .

. . .to NEVJO, then left turn heading 130° to intercept the SEA R-146 to SUMMA INT, then via assigned transition.

BAKER CITY TRANSITION (SUMMA7.BKE): From over SUMMA INT via OLM R-100 and BKE R-283 to BKE VOR/DME.LAKEVIEW TRANSITION (SUMMA7.LKV): From over SUMMA INT via SEA R-146 and LKV R-327 to LKV VORTAC.

VORTAC SEA 116.8 Chan 115	APP CRS 161°	Rwy 16L Idg 11901 TDZE 433 Apt Elev 433	Rwy 16C Idg 9426 TDZE 430 Apt Elev 433
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VOR/DME RWY 16L/C
SEATTLE-TACOMA INTL (SEA)

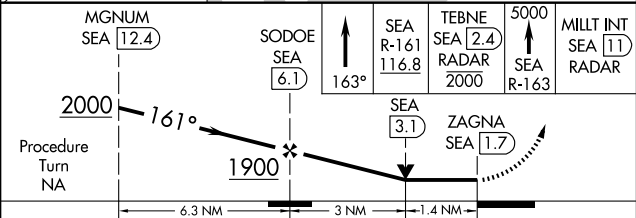
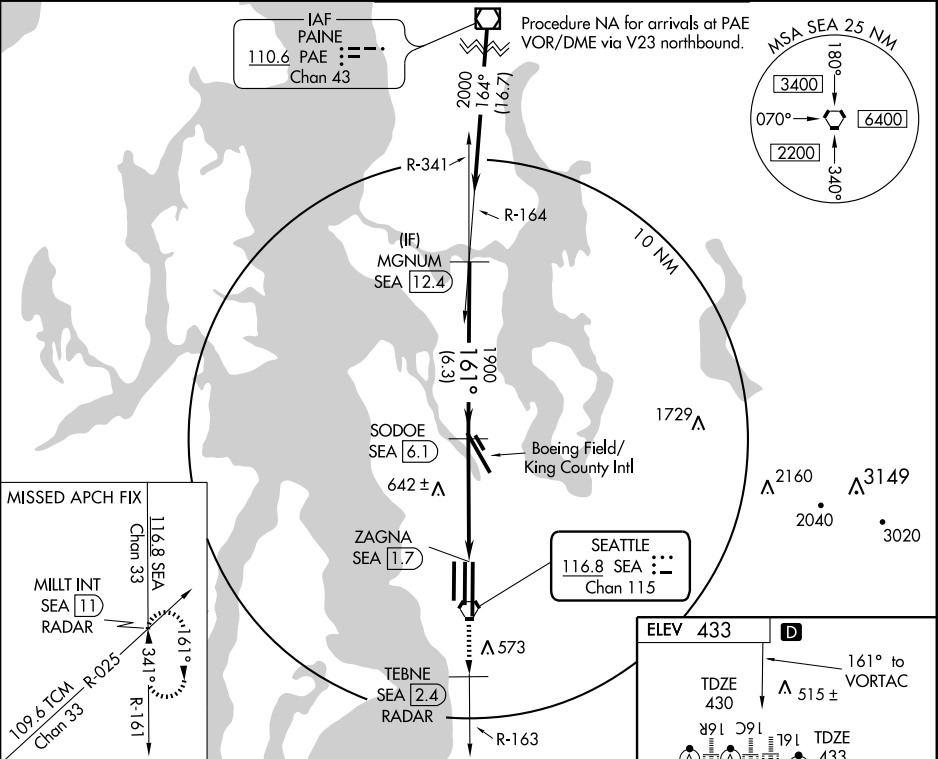


See additional requirements on adjacent information page.

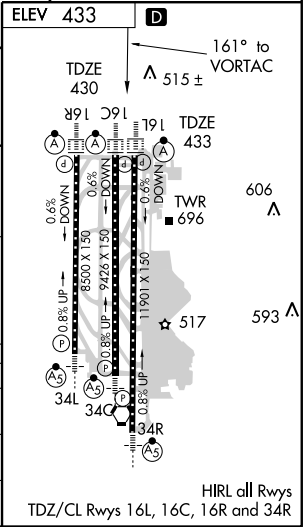
ALSF-2
Rwy 16L/C

MISSED APPROACH: Climb heading 163° and SEA VORTAC R-161 to cross TEBNE/2.4 DME/RADAR at or below 2000, then climb to 5000 via SEA R-163 to MILT INT/SEA 11 DME/RADAR and hold, continue climb-in-hold to 5000.

ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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CATEGORY	A	B	C	D
S-16L	960/24 527 (600-½)		960/50 527 (600-1)	960/60 527 (600-1 ¼)
S-16C	960/24 530 (600-½)		960/50 530 (600-1)	960/60 530 (600-1 ¼)
CIRCLING	1000-1 567 (600-1)		1000-1 ½ 567 (600-1 ½)	1000-2 567 (600-2)



SEATTLE-TACOMA INTL AIRPORT**ALERT NOTICE****ATTENTION ALL AIRCRAFT LANDING TO THE SOUTH:**

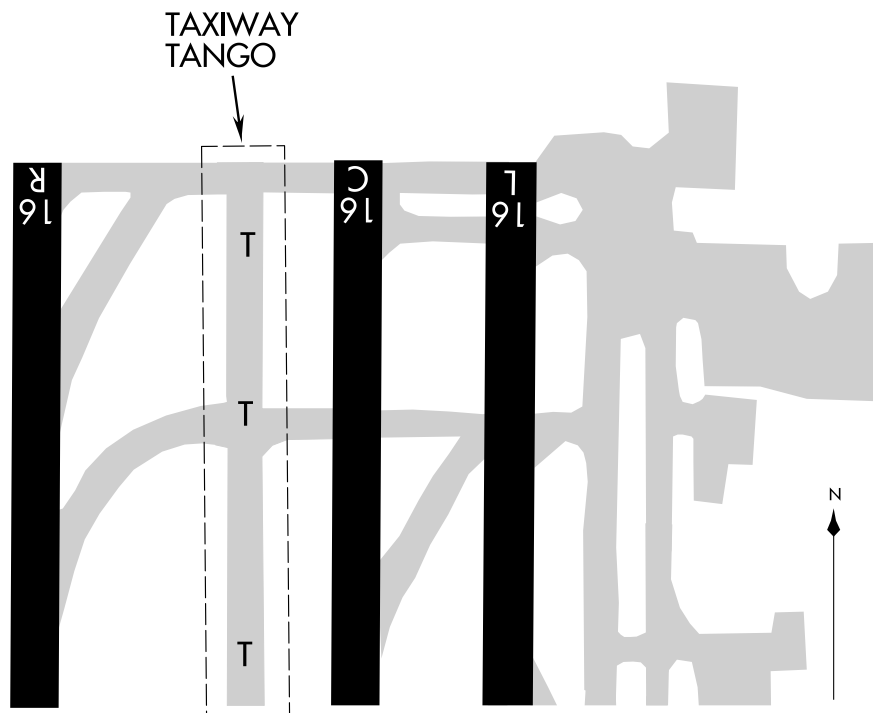
When transitioning from an instrument procedure to a visual approach to Runway 16C, verify you are aligned for the intended landing Runway, not Taxiway Tango. Taxiway Tango is west and parallel to Runway 16C.

TRANSITION TO VISUAL:

Taxiway Tango has been mistaken for Runway 16C from the air during certain visibility conditions, i.e., wet runway, low sun angle reflections. Aircrews are advised to be aware of the proximity of the taxiway to Runway 16C and its runway-like appearance while on approach.

RECOMMENDATION:

Aircrews should use visual cues, e.g., approach lighting systems, REILs, when available, to confirm alignment with Runway 16C not Taxiway Tango. Additionally, it is recommended when executing a segment of the ILS approach for a visual transition, track the localizer until the runway environment is visually verified.



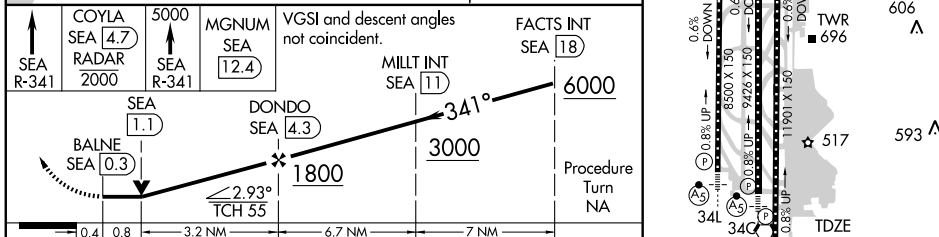
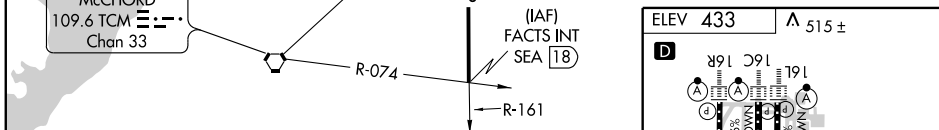
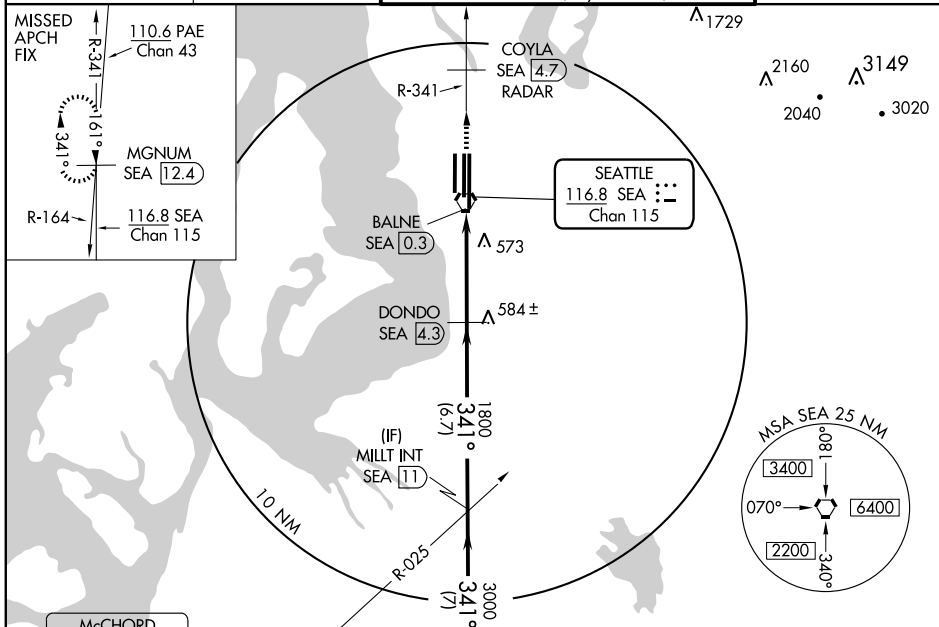
VORTAC SEA 116.8 Chan 115	APP CRS 341°	Rwy 34C Idg 9426 TDZE 387 Apt Elev 433	Rwy 34R Idg 11901 TDZE 372 Apt Elev 433
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VOR/DME RWY 34C

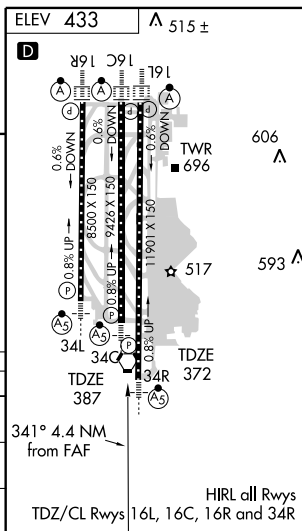
SEATTLE-TACOMA INTL (SEA)

<p>⚠ Inoperative table does not apply to sidestep 34R Cats. A and B.</p>	<p>MALSR Rwy 34C/R </p>	<p>MISSED APPROACH: Climb via SEA R-341 to cross COYLA/4.7 DME/RADAR at or below 2000, then climb to 5000 via SEA R-341 to MGNUM/SEA 12.4 DME and hold, continue climb-in-hold to 5000.</p>
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ATIS 118.0	SEATTLE APP CON 133.65 273.45	SEATTLE TOWER 119.9 239.3 (Rwys 16C/34C, 16L/34R) 120.95 239.3 (Rwy 16R/34L)	GND CON 121.7
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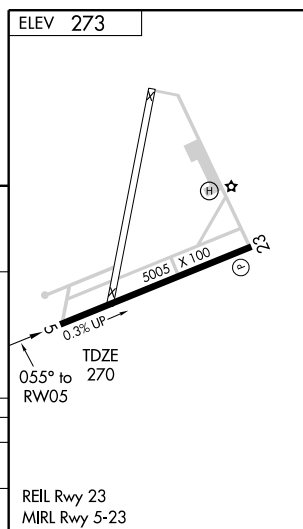
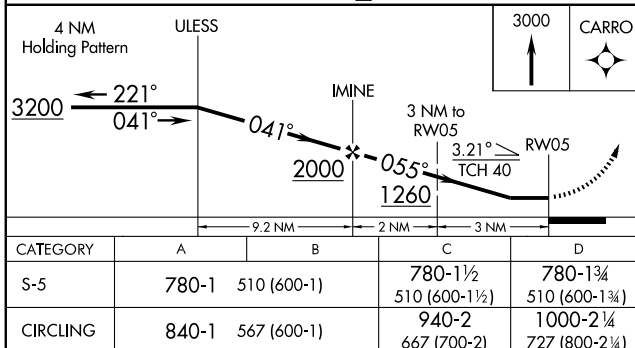
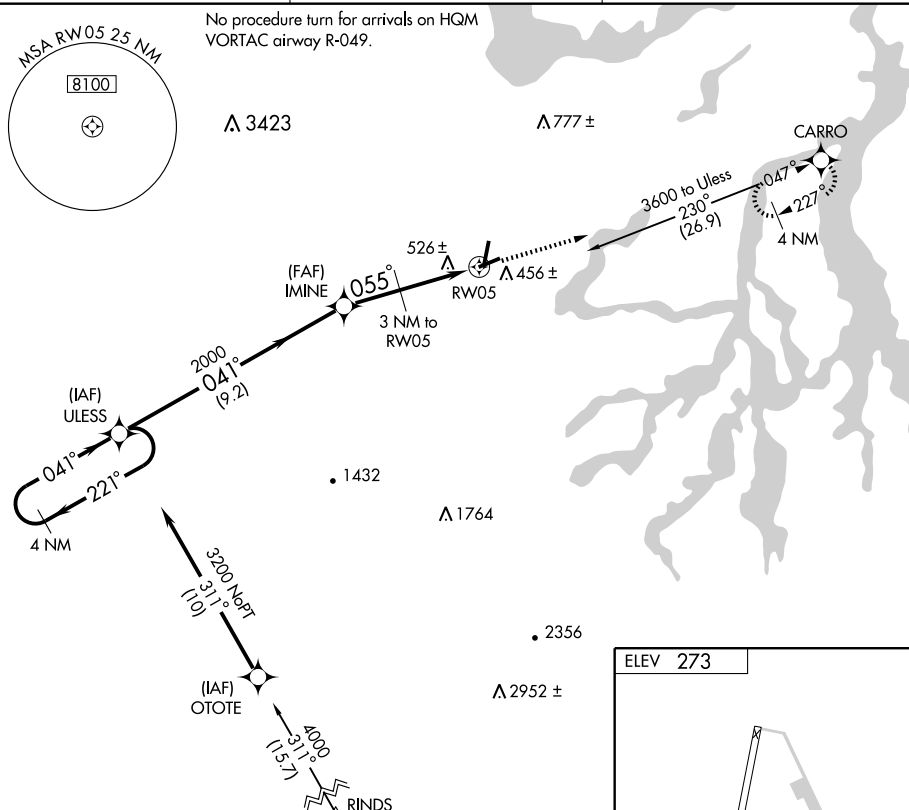


CATEGORY	A	B	C	D
S-34C	840/24 453 (500-½)	840/40 453 (500-¾)	840/50 453 (500-1)	
SIDESTEP 34R	840/60 468 (500-1¼)		840-1¾ 468 (500-1¾)	
CIRCLING	1000-1 567 (600-1)	1000-1½ 567 (600-1½)	1000-2 567 (600-2)	



MISSED APPROACH: Climb to 3000 direct CARRO WP and hold.

UNICOM
122.8 (CTAF)



GPS RWY 23

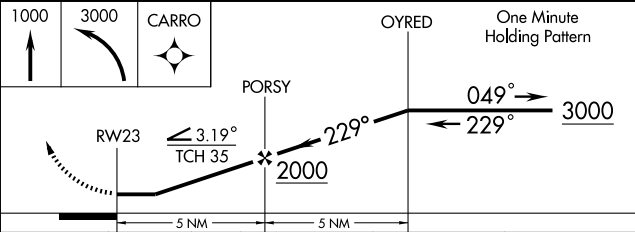
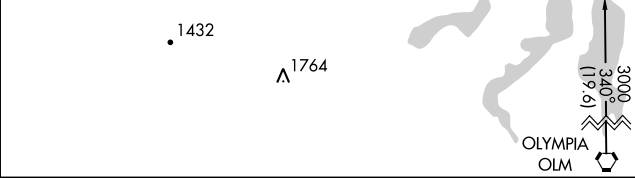
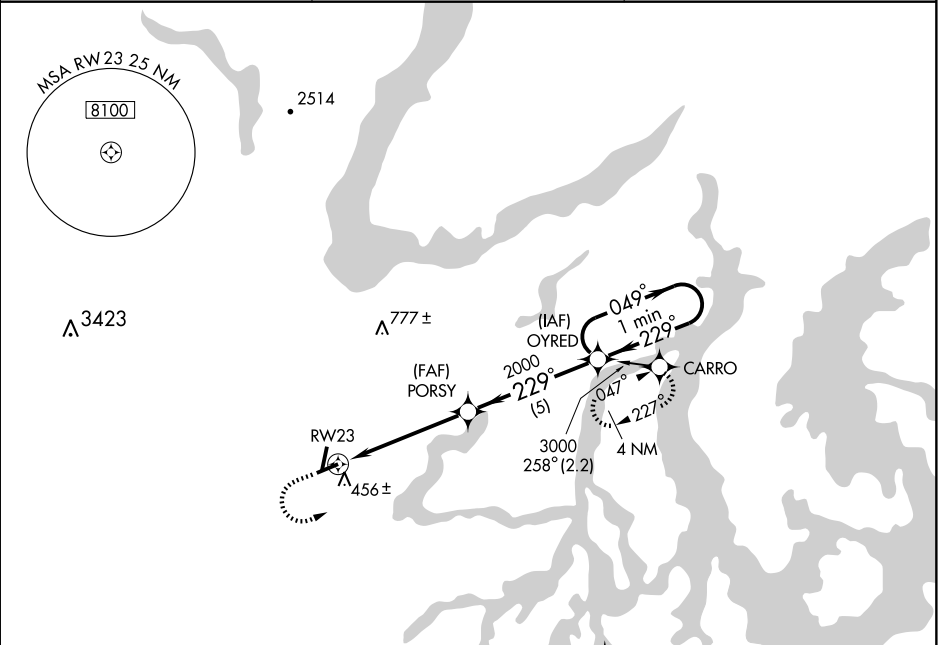
SHELTON/ SANDERSON FIELD (SHN)

APP CRS	Rwy Idg	5005
229°	TDZE	273
	Apt Elev	273

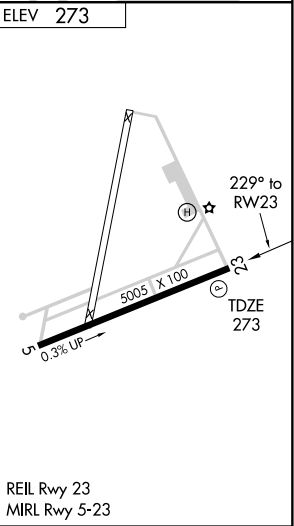
NA

MISSED APPROACH: Climb to 1000 then climbing left turn to 3000 direct CARRO WP and hold.

ASOS 119.275	SEATTLE APP CON 121.1 290.9	UNICOM 122.8 (CTAF)
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CATEGORY	A	B	C	D
S-23	860-1 587 (600-1)	860-1½ 587 (600-1½)	860-1¾ 587 (600-1¾)	860-2 587 (600-2)
CIRCLING	860-1 587 (600-1)	860-1½ 587 (600-1½)	860-1¾ 587 (600-1¾)	860-2 587 (600-2)

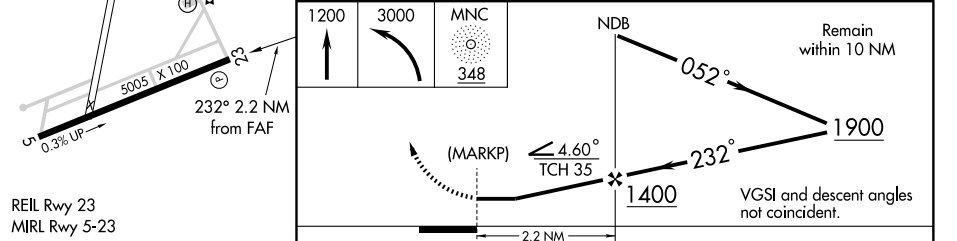
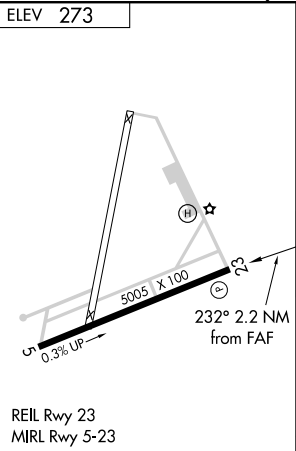
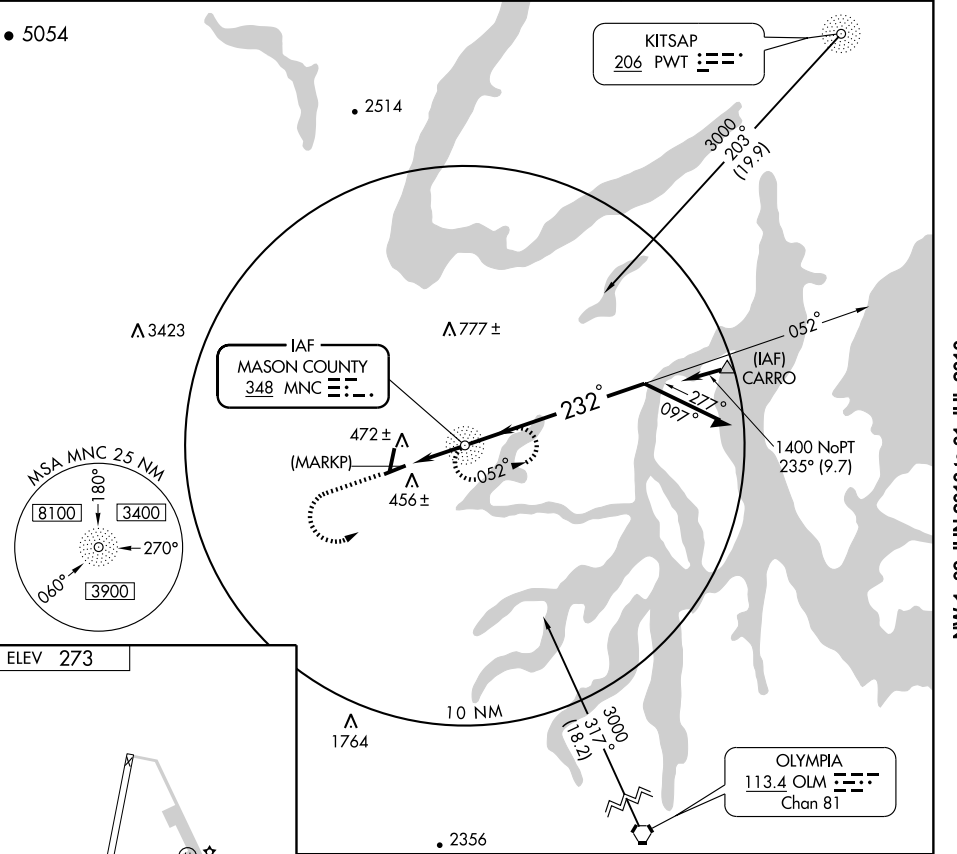


T

NA

MISSED APPROACH: Climb to 1200 then climbing left turn to 3000 direct MNC NDB and hold.

ASOS 119.275	SEATTLE APP CON 121.1 290.9	UNICOM 122.8 (CTAF)
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FAF to MAP 2.2 NM							CATEGORY	A	B	C	D
Knots	60	90	120	150	180		CIRCLING	900-1	627 (700-1)	940-2 667 (700-2)	1000-2½ 727 (800-2¼)
Min:Sec	2:12	1:28	1:06	0:53	0:44						

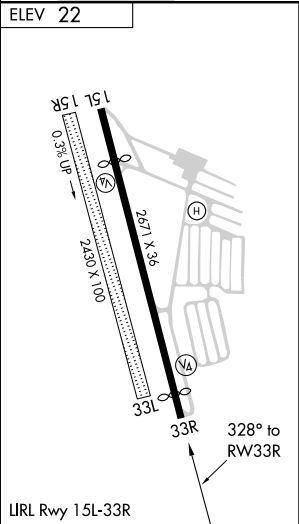
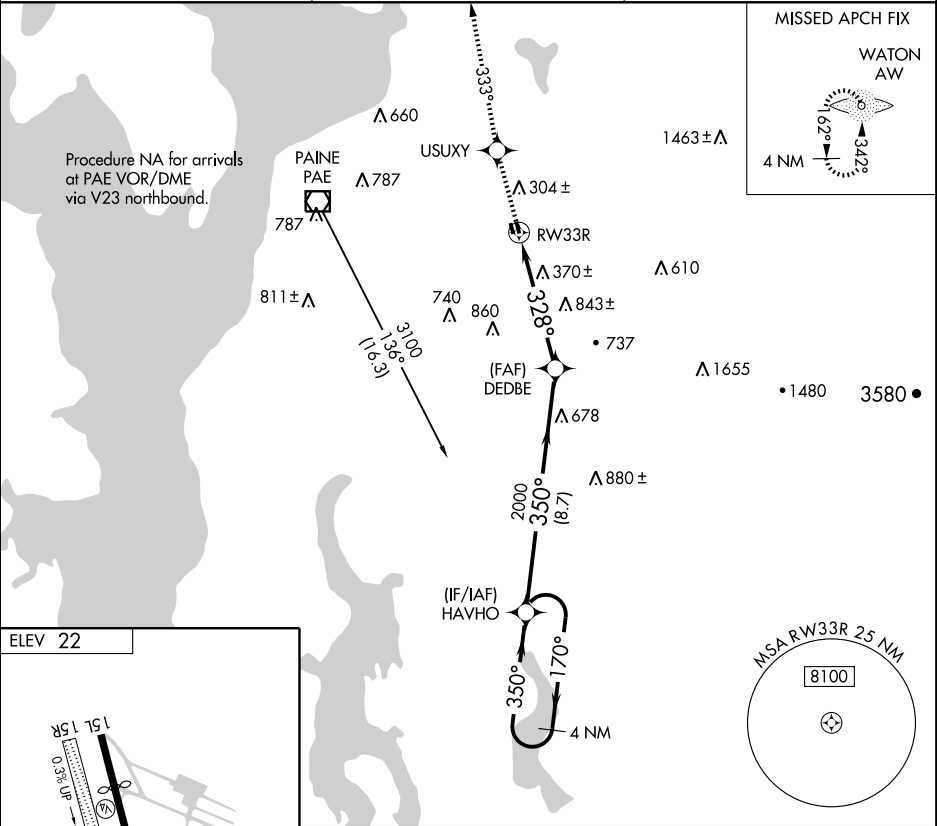
NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	N/A
328°	TDZE	N/A
	Apt Elev	22

RNAV (GPS)-A
SNOHOMISH/ HARVEY FIELD (S43)

<p>NA</p> <p>DME/DME RNP-0.3 NA.</p> <p>Procedure NA at night.</p> <p>Use Arlington altimeter setting. When not received, use Everett altimeter setting and increase all MDA 60 feet.</p>	<p>MISSED APPROACH: Climb to 2000 direct USUXY and via 333° track to WATON LOM and hold.</p>
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ARLINGTON AWOS-3 135.625	SEATTLE CENTER 128.5 306.9	UNICOM 123.0 (CTAF)
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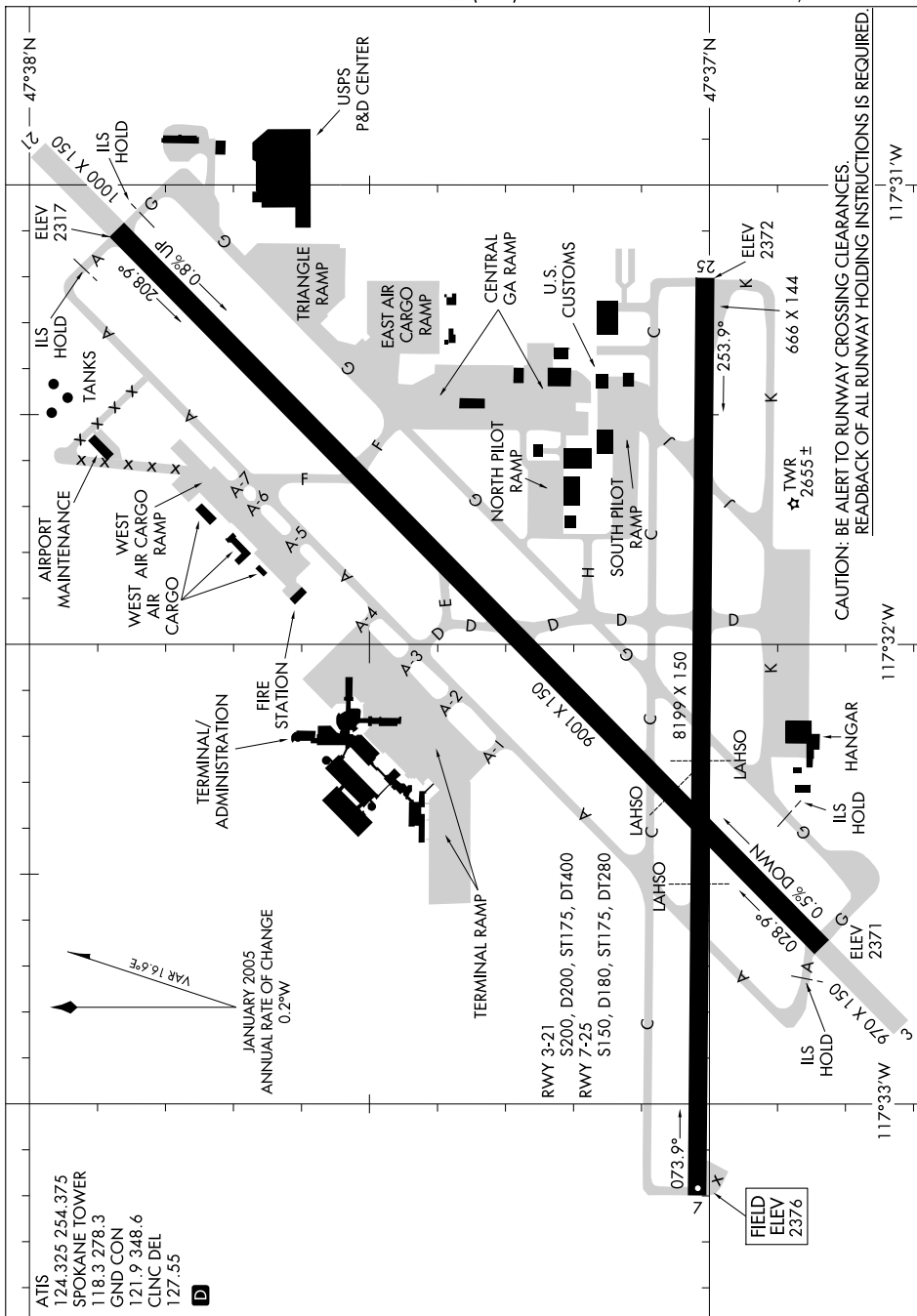


2000	USUXY	333° track	AW	HAVHO	4 NM Holding Pattern
VGSI and descent angles not coincident.		DEDBE			
RW33R		328°			
328°		350°			
350°		170°			
170°		3100			
5 NM		8.7 NM			
CATEGORY	A	B	C	D	
CIRCLING	1220-1¼ 1198 (1200-1¼)	1220-1½ 1198 (1200-1½)	NA		

AIRPORT DIAGRAM

AL-403 (FAA)

SPOKANE INTL (GEG)
SPOKANE, WASHINGTON



NW-1. 03 JUN 2010 to 01 JUL 2010



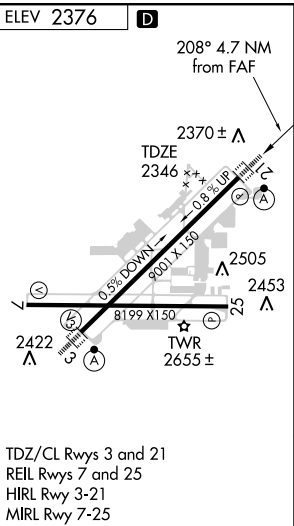
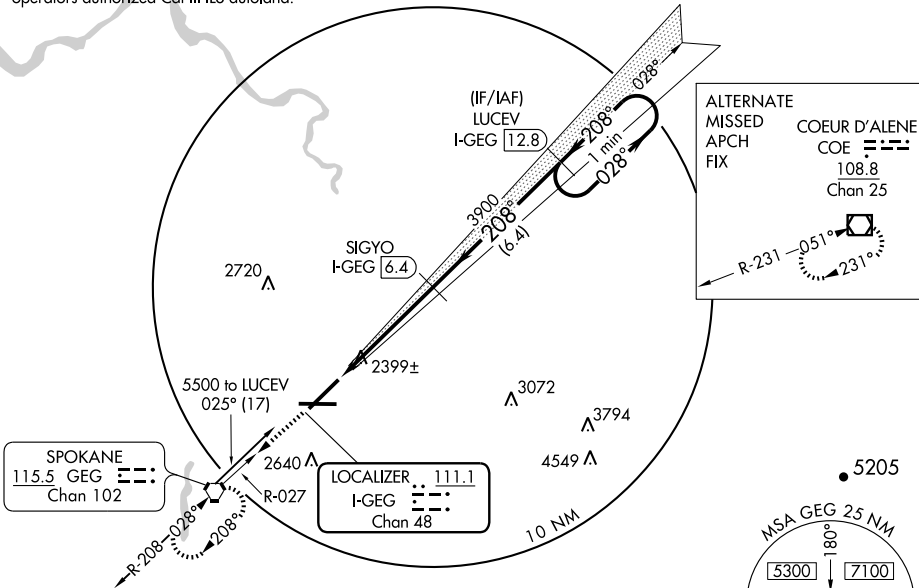
Landing Fairchild AFB: Proceed to KNOCK DME via direct, maintain last assigned altitude to KNOCK.

LOC/DME I-GEG	APP CRS	Rwy Idg	9001
111.1	208°	TDZE	2346
Chan 48		Apt Elev	2376


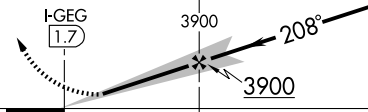
ILS or LOC/DME RWY 21
SPOKANE INTL (GEG)

⚠ For inoperative ALSF, increase S-LOC 21 Cat D visibility to 1.		ALSF-2 	MISSED APPROACH: Climb to 4200 via GEG VORTAC R-027 to GEG VORTAC and hold.	
ATIS 124.325 254.375	SPOKANE APP CON 123.75 282.25 (WEST) 133.35 263.0 (EAST)	SPOKANE TOWER 118.3 278.3	GND CON 121.9 348.6	CLNC DEL 127.55

Autoland NA when weather below 300/1 except for operators authorized Cat III ILS autoland.



DME REQUIRED

4200 ↑ GEG R-027		GEG 115.5 		VGSI and ILS glidepath not coincident.		LUCEV I-GEG 12.8		One Minute Holding Pattern	
Use I-GEG DME when on LOC course.		SIGYO I-GEG 6.4		3900		208°		028° → ← 208° 5500	
		I-GEG 1.7		3900		208°		GS 3.00° TCH 59	
4.7 NM		6.4 NM							
CATEGORY	A		B		C		D		
S-ILS 21			2546/18		200 (200-½)				
S-LOC 21	2680/24		334 (400-½)				2680/40 334 (400-¾)		
CIRCLING	2960-1		584 (600-1)		2960-1½ 584 (600-1½)		2980-2 604 (700-2)		

AL-403 (FAA)

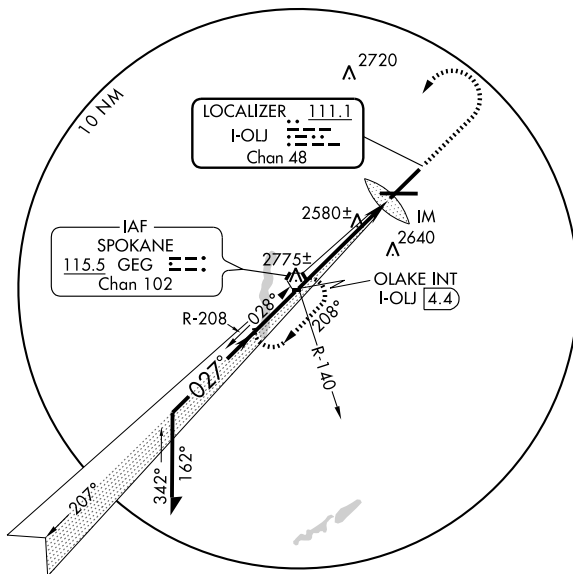
ILS or LOC RWY 3


SPOKANE INTL (GEG)



MISSED APPROACH: Climb to 2900 then climbing left turn to 4200 direct GEG VORTAC and hold.

CLNC DEL
127,55

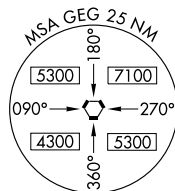


ALTERNATE
MISSED COEUR D'ALENE
APCH COE 
FIX 108.8
Chan 25

A 3072

A 3794

4549 A



VGSI and ILS glidepath not coincident.
Use I-OLJ DME when on LOC course.

VORTAC

2900

4200

GFG

Remain
within 10 NM

4400 =

GS 3.00°

TCH 51

DME
ANTENNADME
ITEM IN LA

ANTENNA

IM

ELEV 2376

D

 $2370 \pm \Delta$

027° 4.6 NM from FAF

0.5% DOWN

0.8% UP

2422 A

2371 A (TDZE)

2505 A

2453 A

8199 X 150

9001 X 150

TDZ/CL Rwy 3 and 21

REIL Rwy 7 and 25

HIRL Rwy 3-21

MIRL Rwy 7-25

FAF to MAP 4.6 NM

Knots	60	90	120	150	180
Min:Sec	4:36	3:04	2:18	1:50	1:32

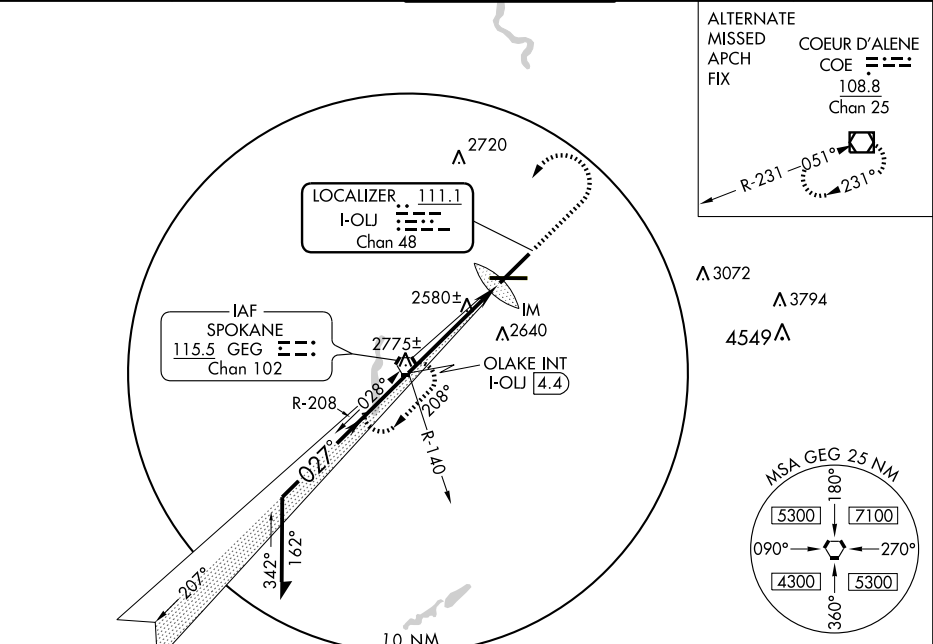
NW-1. 03 JUN 2010 to 01 JUL 2010

LOC/DME I-OLJ	APP CRS	Rwy Idg	9001
111.1	027°	TDZE	2371
Chan 48		Apt Elev	2376

ALSF-2

MISSED APPROACH: Climb to 2900 then climbing left turn to 4200 direct GEG VORTAC and hold.

ATIS	SPOKANE APP CON	SPOKANE TOWER	GND CON	CINC DEL
124.325 254.375	123.75 282.25 (WEST) 133.35 263.0 (EAST)	118.3 278.3	121.9 348.6	127.55



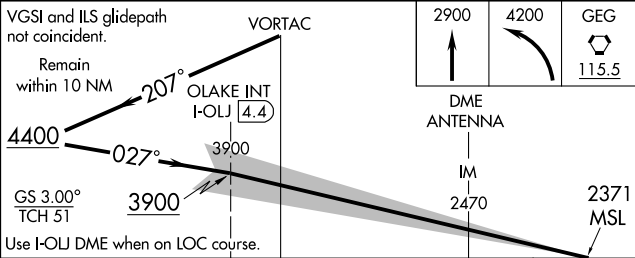
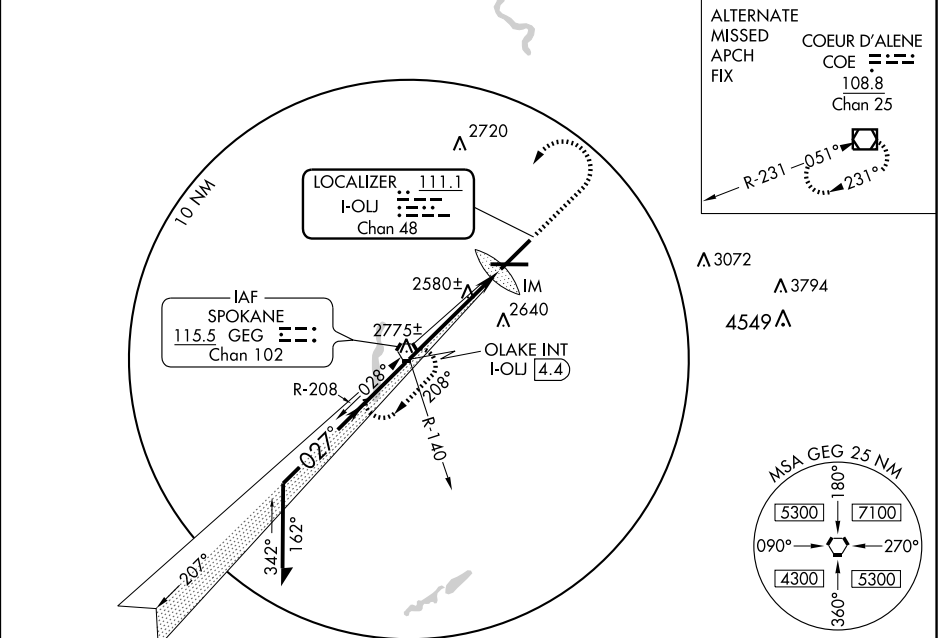
LOC/DME I-OLJ	APP CRS	Rwy Idg	9001
111.1	027°	TDZE	2371
Chan 48		Apt Elev	2376

ILS RWY 3 (CAT III)
SPOKANE INTL (GEG)

ALSF-2

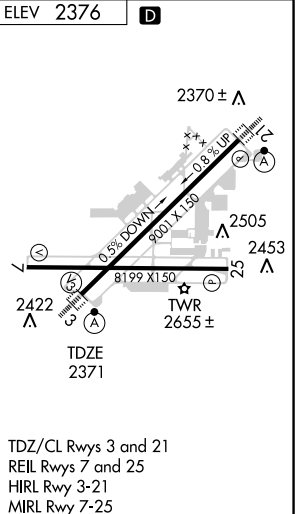
MISSED APPROACH: Climb to 2900 then climbing left turn to 4200 direct GEG VORTAC and hold.

ATIS	SPOKANE APP CON	SPOKANE TOWER	GND CON	CLNC DEL
124.325 254.375	123.75 282.25 (WEST) 133.35 263.0 (EAST)	118.3 278.3	121.9 348.6	127.55



CATEGORY	A	B	C	D
S-ILS 3		CAT IIIa RVR 700		
S-ILS 3		CAT IIIb RVR 600		
S-ILS 3		CAT IIIc NA		

CATEGORY III ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED



AL-403 (FAA)

ILS RWY 21 (CAT II)
SPOKANE INTL (GEG)



ALSF-2



MISSED APPROACH: Climb to 4200 via
GEG VORTAC R-027 to GEG VORTAC and hold.

Autoland NA when weather below 300/1 except for operators authorized Cat III ILS autoland.

(IF/IAF) LUCEV
I-GEG 12.8

SIGYO
I-GEG 6.4

5500 to LUCEV
025° (17)

2399±

2640

R-208-028°

R-027

LOCALIZER 113.1
I-GEG 6.4
Chan 48

2720

3072

3794

4549

10 NM

5205

MSA GEG 25 NM


5300 7100

ALTERNATE MISSED APCH FIX COEUR D'ALENE
COE 108.8
Chan 25

R-231-051°

NW-1. 03 JUN 2010 to 01 JUL 2010

DME REQUIRED

4200 ↑ GEG R-027	GEG  <u>115.5</u>
Use I-GEG DME when on LOC course.	

VGSI and ILS glidepath
not coincident.

LUCEV
I-GEG 12.8

One Minute Holding Pattern

PA

OH 3900

A line graph showing a linear relationship. The y-axis is labeled with 47 at the intercept and 390 at a point further up. The x-axis is labeled with 1 at the first tick mark. A line starts at (0, 47) and passes through (1, 390). The line is labeled with the equation $y = 390x + 47$.

—

$$\frac{\text{GS } 3.00^\circ}{\text{TCH } 59}$$

	941'	947'	4.5 NM	6.4 NM	
CATEGORY	A	B	C	D	
S-ILS 21	RA 147/16 100 DA 2446				

CATEGORY II ILS - SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

LOC/DME I-GEG <u>111.1</u> Chan 48	APP CRS 208°	Rwy Idg 9001 TDZE 2346 Apt Elev 2376
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ILS RWY 21 (CAT III)
SPOKANE INTL (GEG)



ALSF-2



MISSED APPROACH: Climb to 4200 via
GEG VORTAC R-027 to GEG VORTAC and hold.

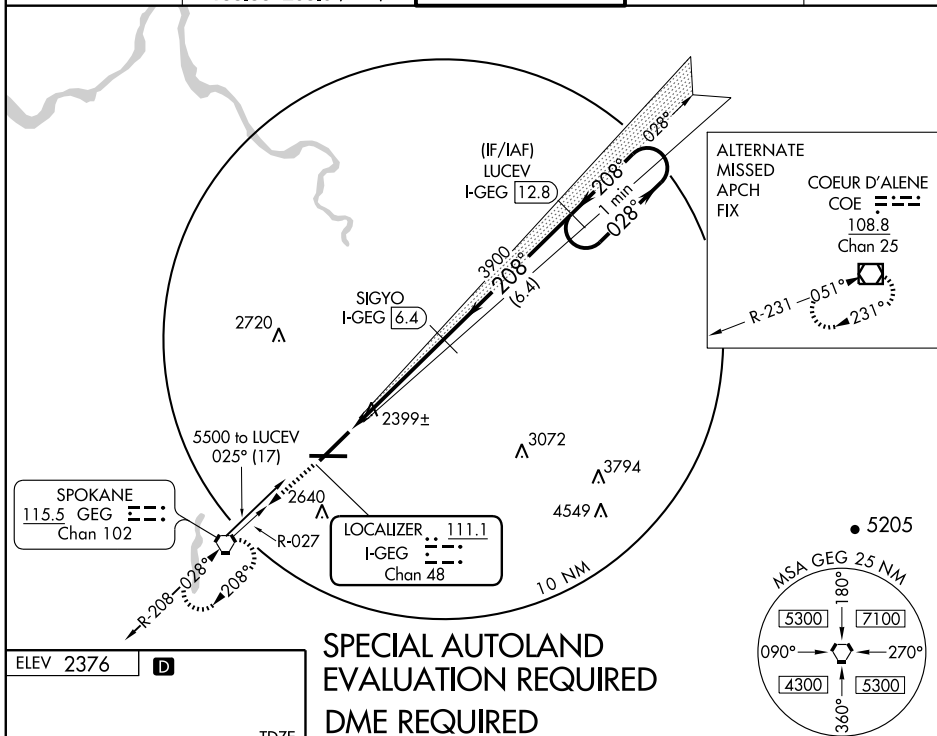
ATIS
124.325 254.375

SPOKANE APP CON
123.75 282.25 (WEST)
133.35 263.0 (EAST)

SPOKANE TOWER
118.3 278.3

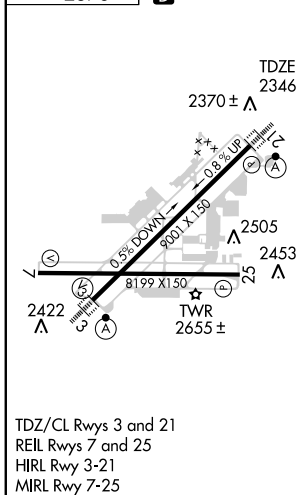
GND CON
121.9 348.6

CLNC DEL
127.55

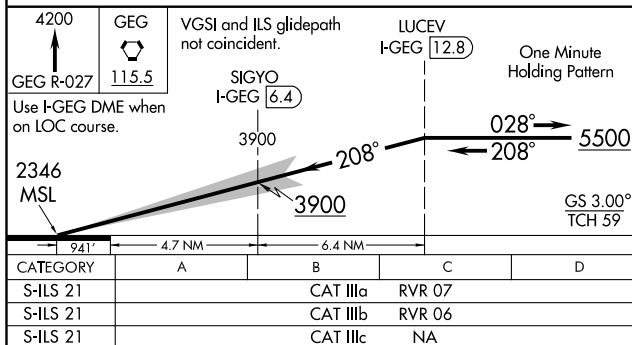


NW-1. 03 JUN 2010 to 01 JUL 2010

ELEV 2376



SPECIAL AUTOLAND
EVALUATION REQUIRED
DME REQUIRED



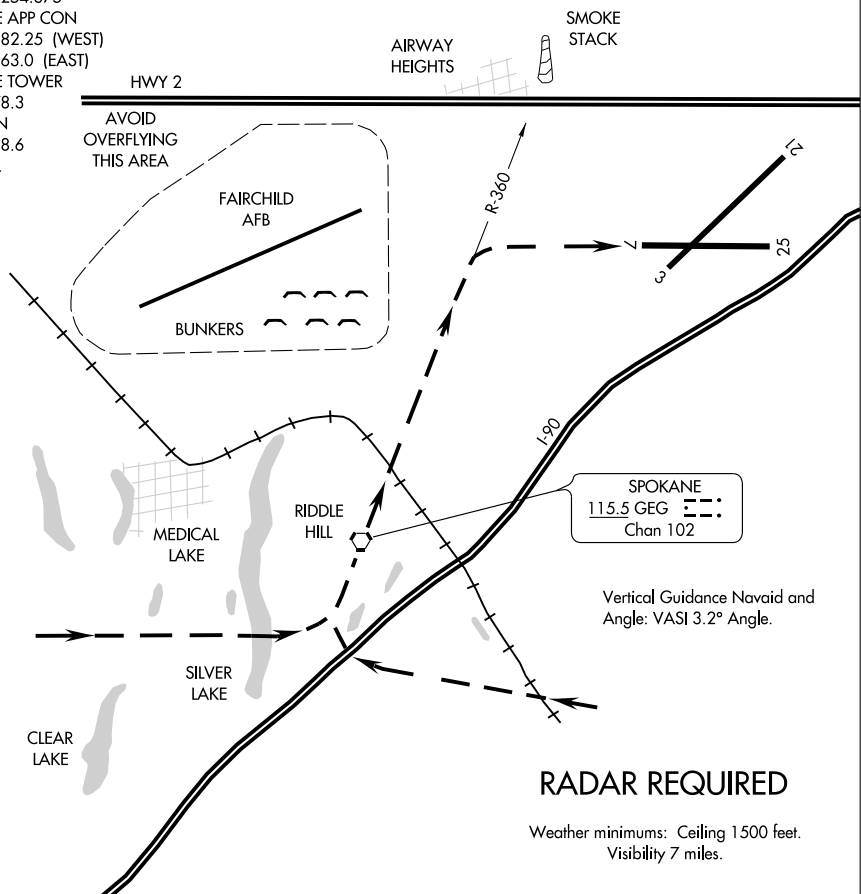
CATEGORY III ILS - SPECIAL AIRCREW
& AIRCRAFT CERTIFICATION REQUIRED

RIDDLE HILL VISUAL RWY 7

AL-403 (FAA)

SPOKANE INTL (GEG)
SPOKANE, WASHINGTON

ATIS
124.325 254.375
SPOKANE APP CON
123.75 282.25 (WEST)
133.35 263.0 (EAST)
SPOKANE TOWER
118.3 278.3
GND CON
121.9 348.6
CLNC DEL
127.55



1 NM	2	3	4	5	6	7	8	9
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RIDDLE HILL VISUAL APPROACH RWY 7

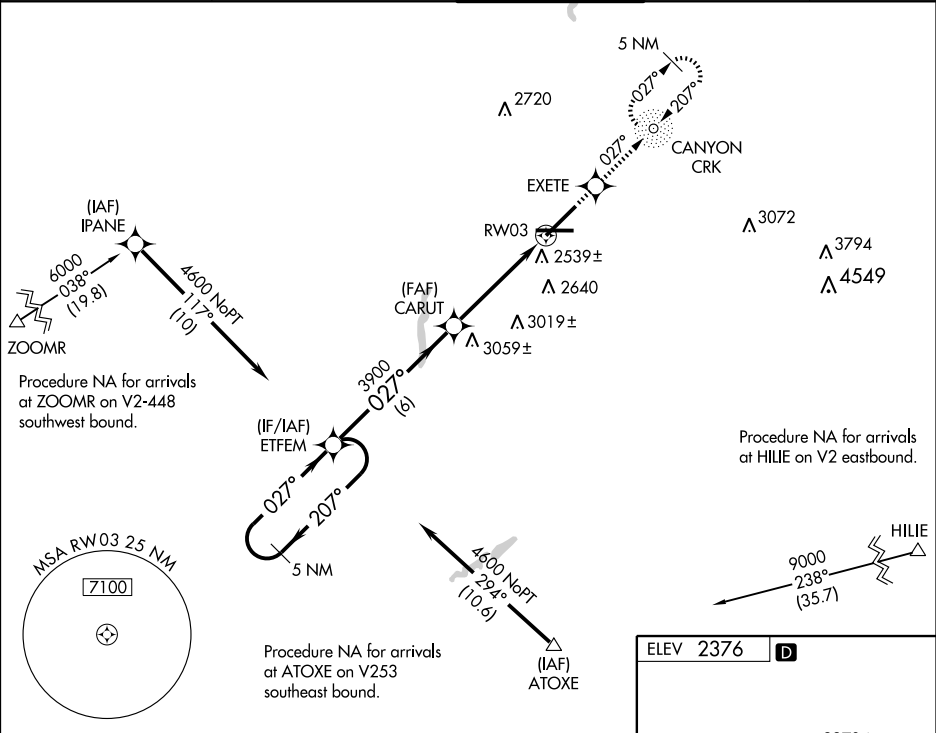
PROCEDURE NOT AUTHORIZED AT NIGHT.

APP CRS	Rwy Idg	9001
027°	TDZE	2371
	Apt Elev	2376

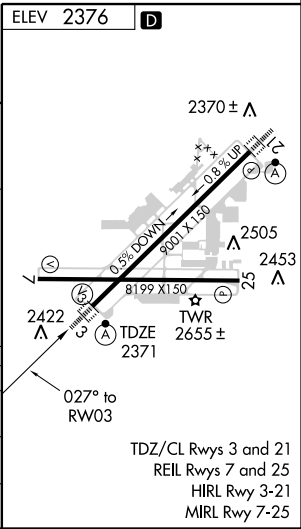
RNAV (GPS) RWY 3
SPOKANE INTL (GEG)

<p>DME/DME RNP-0.3 NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F).</p>	<p>ALSF-2 </p>	<p>MISSED APPROACH: Climb to 4400 direct EXETE and on track 027° to CRK NDB and hold.</p>
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ATIS 124.325 254.375	SPOKANE APP CON 123.75 282.25 (WEST) 133.35 263.0 (EAST)	SPOKANE TOWER 118.3 278.3	GND CON 121.9 348.6	CLNC DEL 127.55
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VGSI and RNAV glidepath not coincident.				
5 NM Holding Pattern				
4600 ← 207° 027° →				
GS 3.00° TCH 51				
ETFEM				
CARUT				
3900				
* 2 NM to RW03				
RW03				
6 NM 2.6 NM 2 NM				
CATEGORY	A	B	C	D
LNAV/VNAV DA	3000-1¾ 629 (700-1¾)			
LNAV MDA	3060/24	689 (700-½)	3060-1½ 689 (700-1½)	3060-1¾ 689 (700-1¾)
CIRCLING	3060-1	684 (700-1)	3060-2 684 (700-2)	3060-2¼ 684 (700-2¼)



NW-1, 03 JUN 2010 to 01 JUL 2010

WAAS CH 48801 W07A	APP CRS 072°	Rwy Idg TDZE Apt Elev	8199 2376 2376
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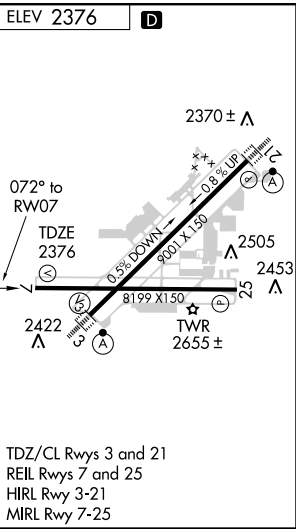
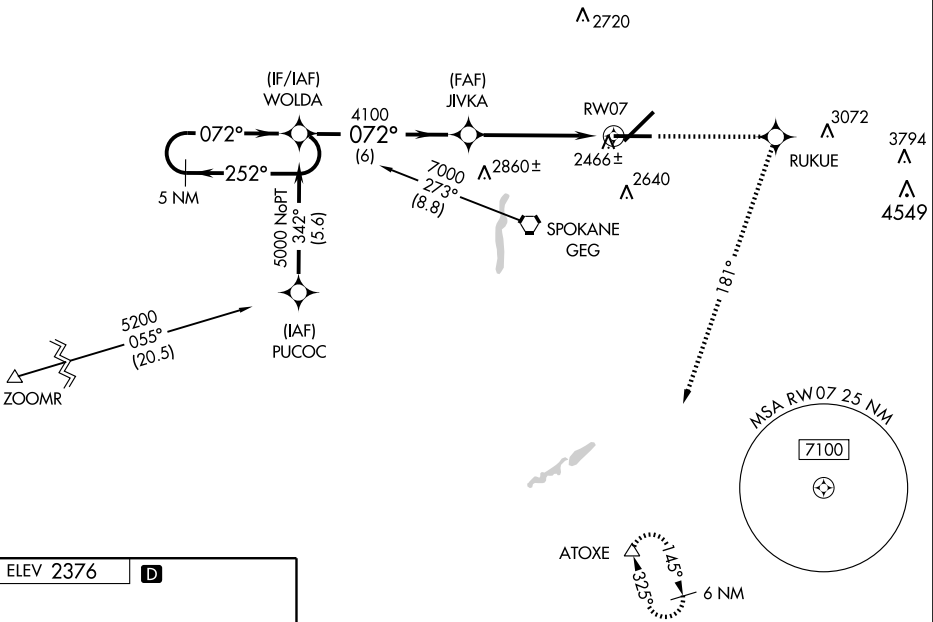
RNAV (GPS) RWY 7
SPOKANE INTL (GEG)

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F).
DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 6000 direct RUKUE and via 181° track to ATOXE and hold, continue climb-in-hold to 6000.

ATIS 124.325 254.375	SPOKANE APP CON 123.75 282.25 (WEST) 133.35 263.0 (EAST)	SPOKANE TOWER 118.3 278.3	GND CON 121.9 348.6	CLNC DEL 127.55
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Procedure NA for arrivals at GEG VORTAC via V120 northbound.



5 NM Holding Pattern		WOLDA	6000	RUKUE	181° track	ATOXE
5000		252°	072°	072°	4100	1.1 NM to RW07
GS 3.00°		TCH 60	6 NM	4.1 NM	1.1	
CATEGORY	A	B	C	D		
LPV DA	2626-1		250 (300-1)			
LNAV/VNAV DA	2786-1½		410 (500-1½)			
LNAV MDA	2800-1		424 (500-1)		2800-1¼ 424 (500-1¼)	
CIRCLING	2960-1		584 (600-1)		2960-1½ 584 (600-1½) 2980-2 604 (700-2)	

APP CRS	Rwy Idg	9001
208°	TDZE	2346
	Apt Elev	2376

RNAV (GPS) RWY 21

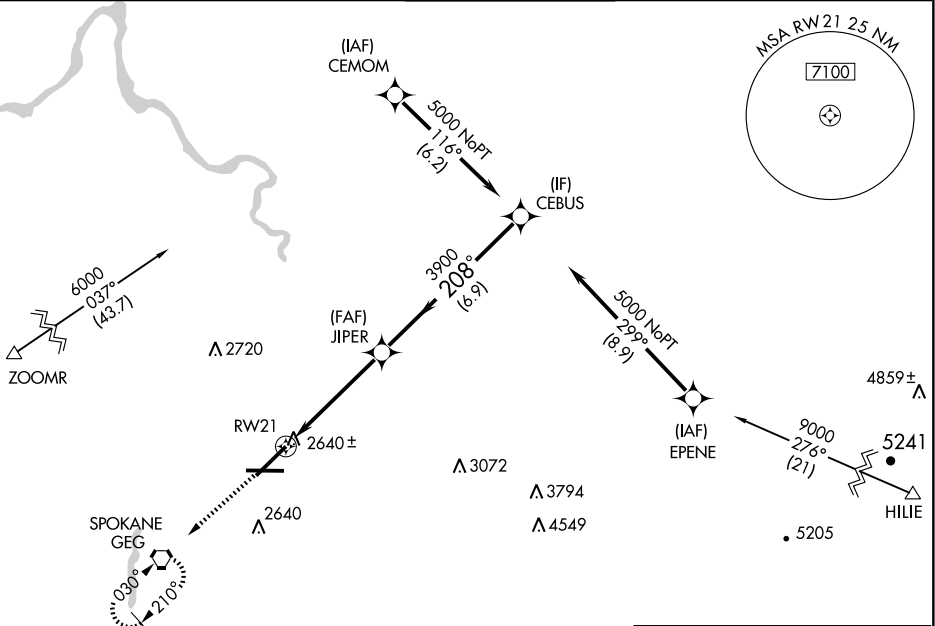
SPOKANE INTL (GEG)

⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F).
DME/DME RNP-0.3 NA.

ALSF-2

MISSED APPROACH: Climb to 4200 direct GEG VORTAC and hold.

ATIS	SPOKANE APP CON	SPOKANE TOWER	GND CON	CLNC DEL
124.325 254.375	123.75 282.25 (WEST) 133.35 263.0 (EAST)	118.3 278.3	121.9 348.6	127.55



4200

GEG

VGSI and RNAV glidepath not coincident.

*LNAV only

RW21

JIPER

CEBUS

Procedure Turn NA

5000

208°

3900

1.4

3.4 NM

6.9 NM

GS 3.00°

TCH 50

CATEGORY	A	B	C	D
GLS PA DA				
LNAV/VNAV DA	2720/50	374 (400-1)		2720/50 374 (400-1)
LNAV MDA	2800/24	454 (500-½)	2800/40 454 (500-¾)	2800/50 454 (500-1)
CIRCLING	2960-1 584 (600-1)	2960-1 584 (600-1)	2960-1½ 584 (600-1½)	2980-2 604 (700-2)

ELEV 2376

D

208° to RW21

2370 ±

TDZE 2346

0.8% DOWN

9001 X 150

8199 X 150

TWR 2655 ±

2422

2505

2453

25

TDZ/CL Rwy 3 and 21

REIL Rwy 7 and 25

HIRL Rwy 3-21

MIRL Rwy 7-25

WAAS
CH 93501
W25A

APP CR
2530

Rwy Idg	8199
TDZE	2372
Apt Elev	2376

RNAV (GPS) RWY 25
SPOKANE INTL (GEG)

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -19°C (-2°F) or above 44°C (111°F).
DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA.

MISSED APPROACH: Climb to 5000 direct CUVES and via 226° track to GANGS and hold.

ATIS
124.325 254.375

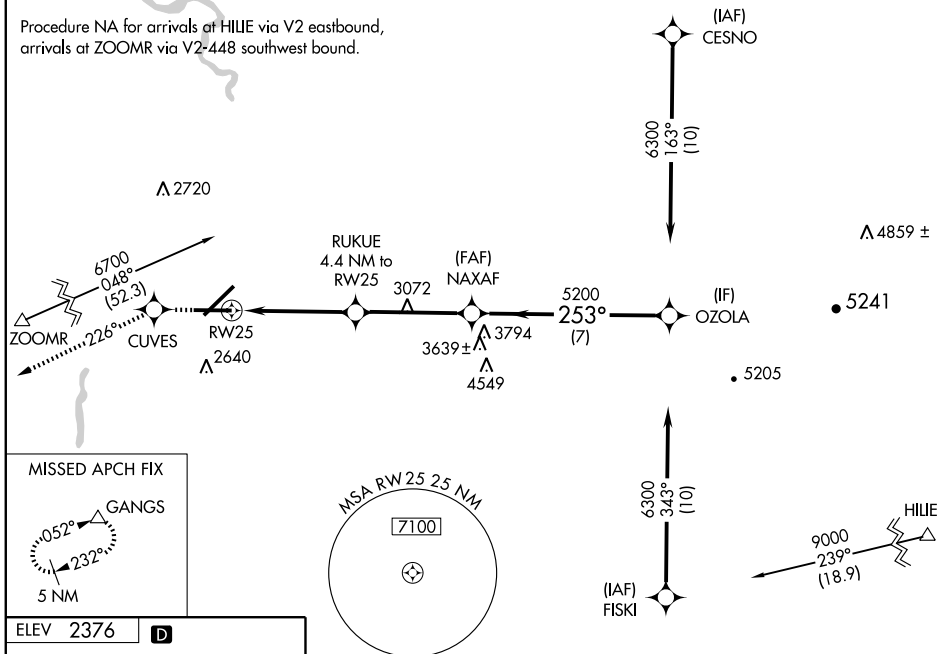
SPOKANE APP CON
123.75 282.25 (WEST)
133.35 263.0 (EAST)

SPOKANE TOWER
118.3 278.3

GND CON
121.9 348.6

CLNC DEL
127.55

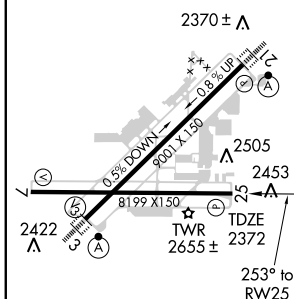
Procedure NA for arrivals at HILIE via V2 eastbound,
arrivals at ZOOMR via V2-448 southwest bound.



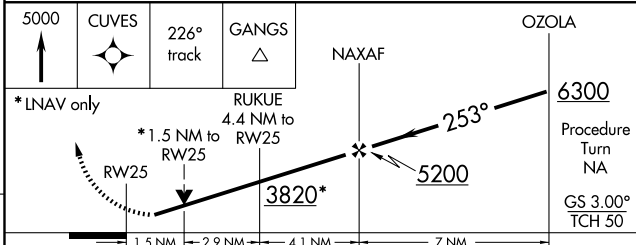
NW-1. 03 JUN 2010 to 01 JUL 2010

ELEV 2376

D



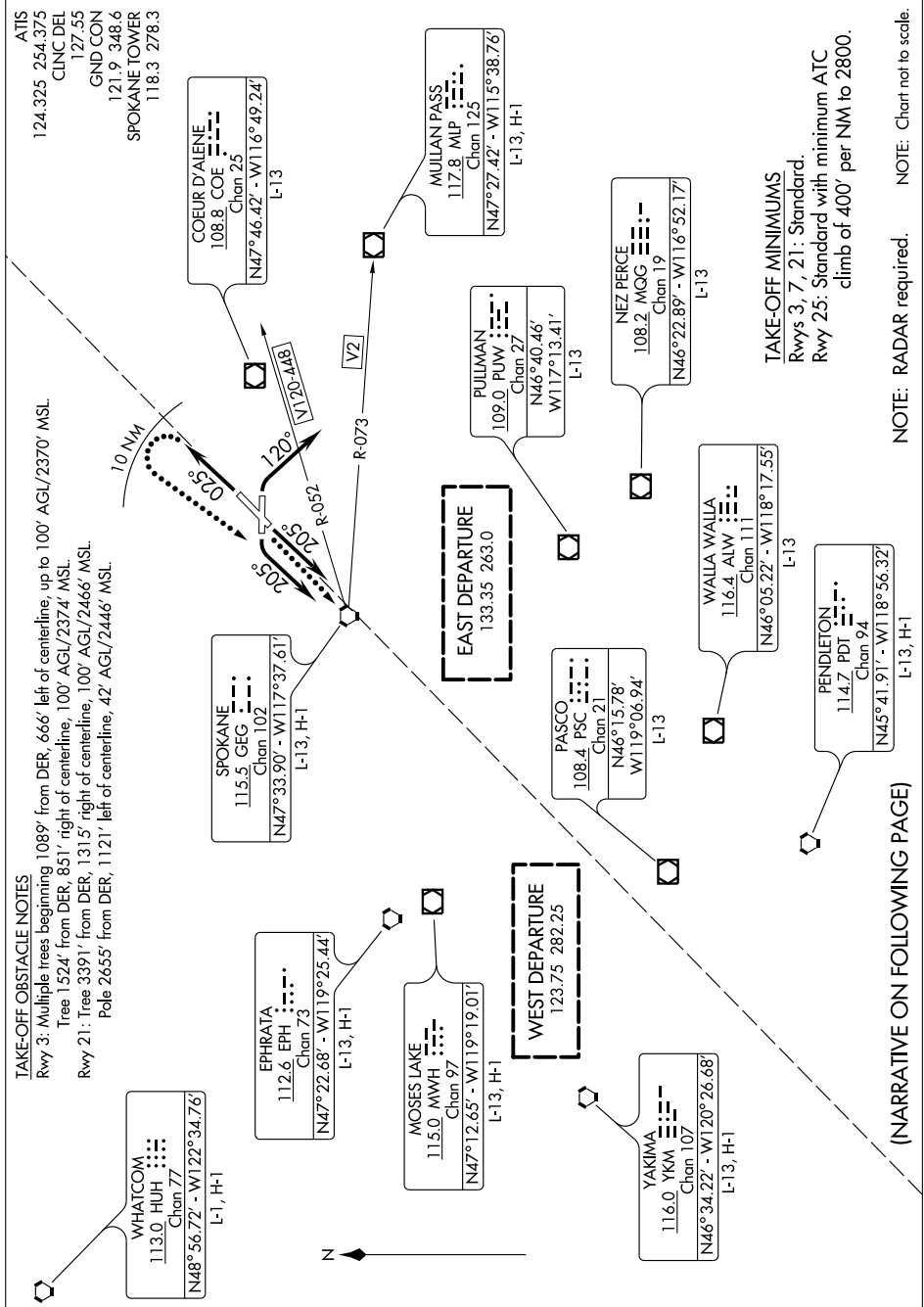
TDZ/CL Rwy 3 and 21
REIL Rwy 7 and 25
HIRL Rwy 3-21
MIRL Rwy 7-25



CATEGORY		A		B		C		D	
LPV	DA	2704-1¼		332 (400-1¼)					
LNAV/ VNAV	DA	2782-1½		410 (500-1½)					
LNAV	MDA	2900-1	528 (600-1)	2900-1½ 528 (600-1½)		2900-1¾ 528 (600-1¾)			
CIRCLING		2960-1	584 (600-1)	2960-1½ 584 (600-1½)		2980-2 604 (700-2)			

SPOKANE NINE DEPARTURE

SL-403 (FAA)

SPOKANE INTL (GEG)
SPOKANE, WASHINGTON



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Turn left heading 025°, expect radar vectors to assigned airway/route. Thence....

TAKE-OFF RUNWAY 7: Turn right heading 120°, expect radar vectors to assigned airway/route. Thence....

TAKE-OFF RUNWAY 21: Turn left heading 205°, expect radar vectors to assigned airway/route. Thence....

TAKE-OFF RUNWAY 25: Turn left heading 205°, expect radar vectors to assigned airway/route. Thence....

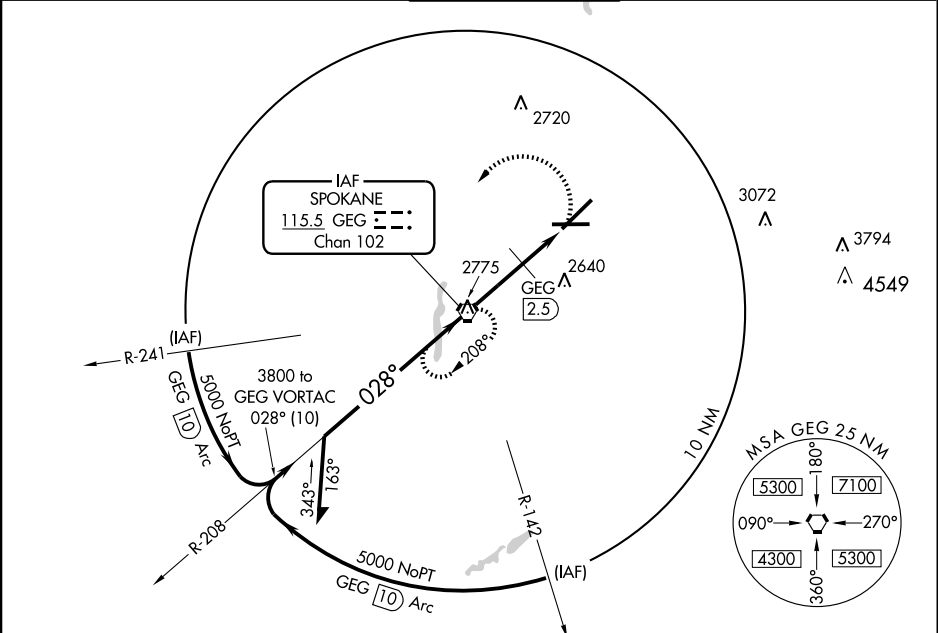
....maintain 12000' or assigned lower altitude, expect filed altitude/flight level 10 minutes after departure.

LOST COMMUNICATIONS: Climb direct GEG VORTAC before proceeding on course. Cross GEG VORTAC at or above: NE-bound V120-448 3900'; E-bound V2 4200'. Aircraft departing RWY 3, if not in contact with ATC within 10 NM after takeoff, turn left direct GEG VORTAC, cross GEG VORTAC at or above 4200', thence via assigned fix/route.

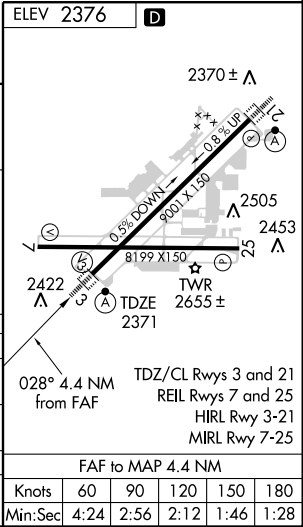
VOR RWY 3
SPOKANE INTL (GEG)

VORTAC GEG 115.5 Chan 102	APP CRS 028°	Rwy Idg TDZE Apt Elev	9001 2371 2376
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<p>Circling Southeast of Rwy 3-21 not authorized Category E.</p>		ALSIF-2 	MISSED APPROACH: Climbing left turn to 4200 direct to GEG VORTAC and hold.	
ATIS 124.325 254.375	SPOKANE APP CON 123.75 282.25 (WEST) 133.35 263.0 (EAST)	SPOKANE TOWER 118.3 278.3	GND CON 121.9 348.6	CLNC DEL 127.55

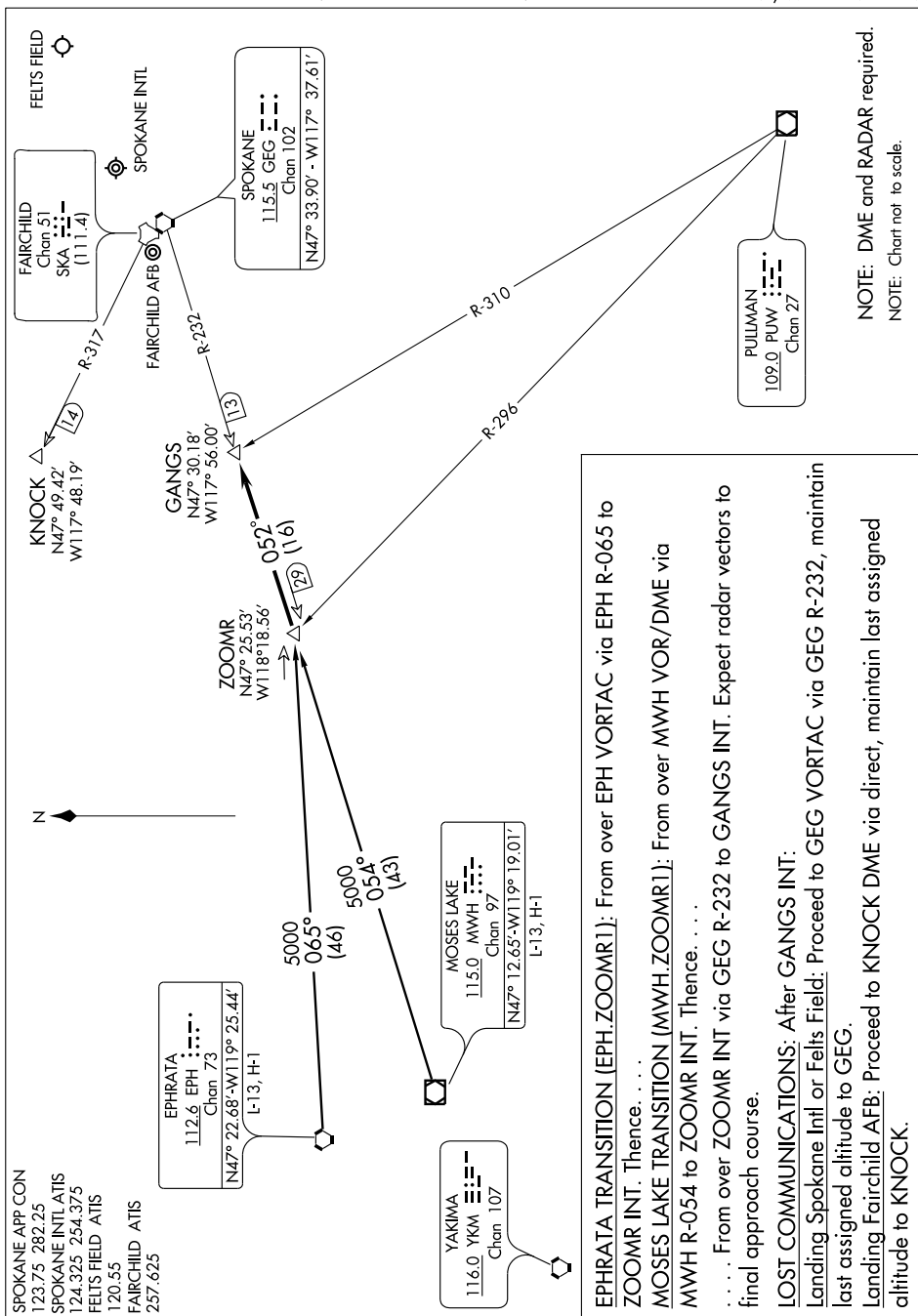


† Remain within 10 NM		VORTAC		4200		GEG 115.5	
† Procedure turn not authorized Category E		3800		2960		GEG 2.5	
		2.90° TCH 54		0.5		1.4 NM	
CATEGORY	A	B	C	D	E		
S-3	2960/24	589 (600-1/2)	2960/50 589 (600-1)	2960/60	589 (600-1 1/4)		
CIRCLING	2960-1	584 (600-1)	2960-1 1/2 584 (600-1 1/2)	2960-2	3080-2 1/2 584 (600-2)	704 (800-2 1/2)	
DME MINIMA							
S-3	2880/24	509 (600-1/2)	2880/50 509 (600-1)	2880/60	509 (600-1 1/4)		



ZOOMR ONE ARRIVAL (ZOOMR.ZOOMR1)

SPOKANE, WASHINGTON



EPHRATA TRANSITION (EPH.ZOOMR1): From over EPH VORTAC via EPH R-065 to ZOOMR INT. Thence. . . .

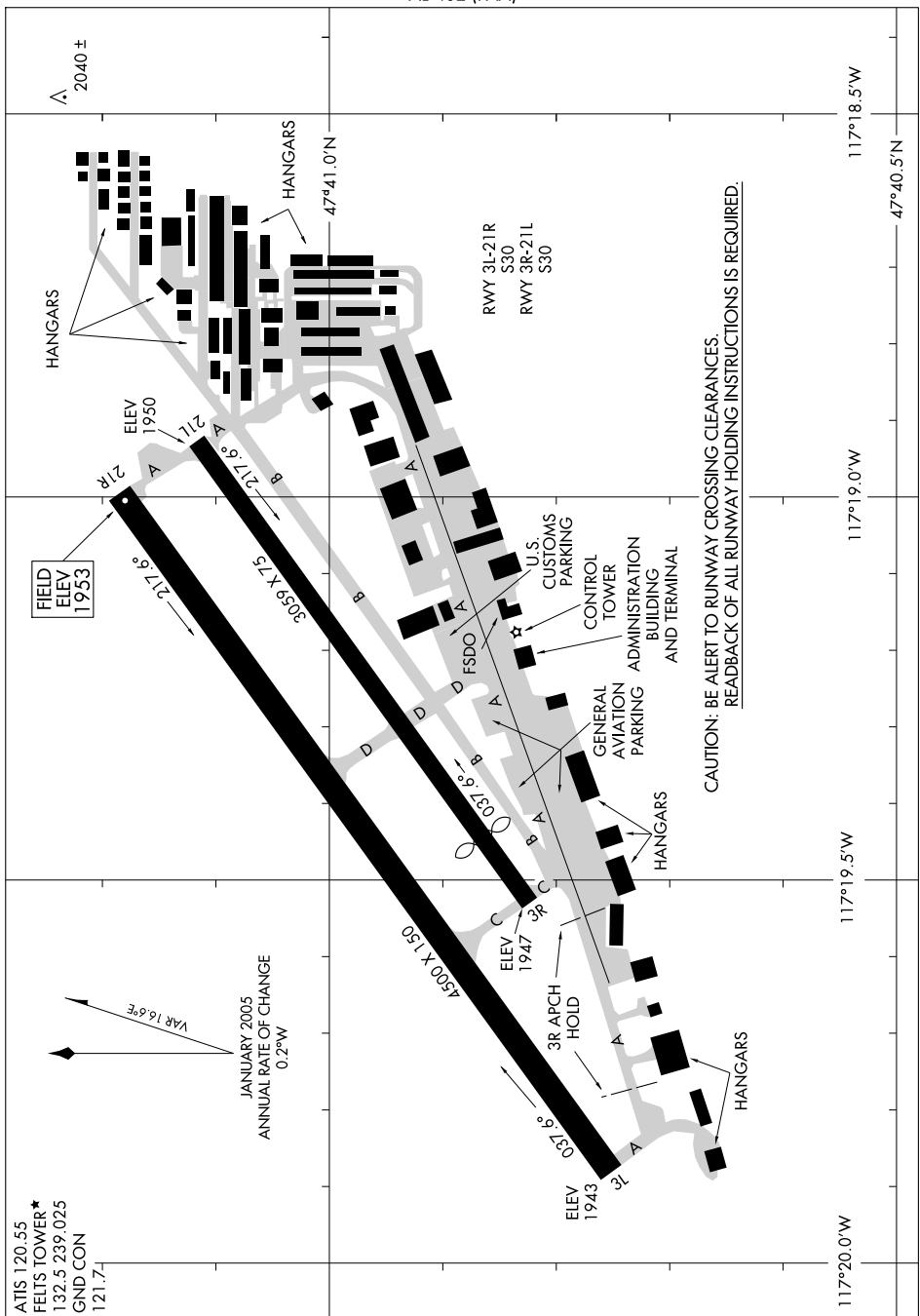
MOSES LAKE TRANSITION (MWH.ZOOMR1): From over MWH VOR/DME via MWH R-054 to ZOOMR INT. Thence. . . .

. . . . From over ZOOMR INT via GEG R-232 to GANGS INT. Expect radar vectors to final approach course.

LOST COMMUNICATIONS: After GANGS INT:

Landing Spokane Intl or Felts Field: Proceed to GEG VORTAC via GEG R-232, maintain last assigned altitude to GEG.

Landing Fairchild AFB: Proceed to KNOCK DME via direct, maintain last assigned altitude to KNOCK.

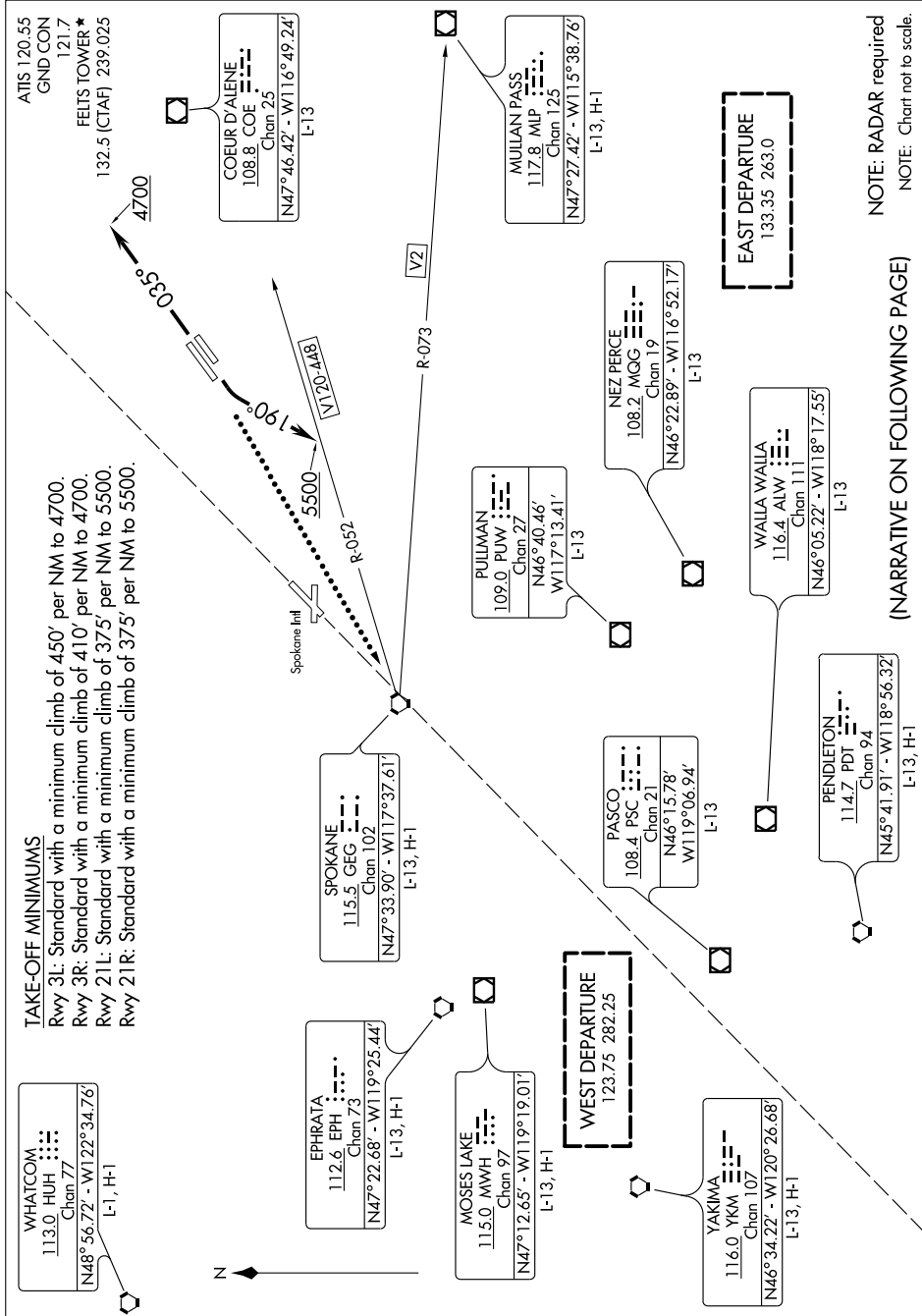


FELTS TWO DEPARTURE

SL-402 (FAA)

SPOKANE/FELTS FIELD (SFF)

SPOKANE, WASHINGTON





DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3L/R: Climb heading 035° to 4700, expect RADAR vectors to assigned airway/route. Thence....

TAKE-OFF RUNWAY 21L/R: Climbing left turn heading 190° to 5500, expect RADAR vectors to assigned airway/route. Thence....

....maintain 12000' or assigned lower altitude, expect filed altitude/flight level 10 minutes after departure.

LOST COMMUNICATIONS: Climb direct GEG VORTAC before proceeding on course. Cross GEG VORTAC at or above: NE-bound V120-448 and E-bound V2 5200'.

TAKE-OFF OBSTACLE NOTES

Rwy 3L: Trees beginning 1853' from DER, 772' right of centerline, up to 100' AGL/2037' MSL.

Trees beginning 3538' from DER, 529' left of centerline, up to 100' AGL/2339' MSL.

Antenna, trees and transmission poles beginning 1.5 NM from DER, 16' left of centerline, up to 100' AGL/2579' MSL.

Trees beginning 2.3 NM from DER, 723' right of centerline, up to 100' AGL/2499' MSL.

Rwy 3R: Hangar, NDB, and trees beginning 92' from DER, 269' right of centerline, up to 100' AGL/2040' MSL.

Trees beginning 4685' from DER, 1033' left of centerline, up to 100' AGL/2339' MSL.

Antenna, trees and transmission poles beginning 1.6 NM from DER, 525' left of centerline, up to 100' AGL/2559' MSL.

Trees and transmission poles beginning 2.6 NM from DER, 214' right of centerline, up to 150' AGL/2570' MSL.

Rwy 21L: Elevator, pole on building and trees beginning 315' from DER, 302' left of centerline, up to 140' AGL/2080 MSL.

Rwy 21R: Poles and trees beginning 188' from DER, 13' right of centerline, up to 100' AGL/1982' MSL.

Elevator, pole hangar and building beginning 203' from DER, 1' left of centerline, up to 140' AGL/2080' MSL.

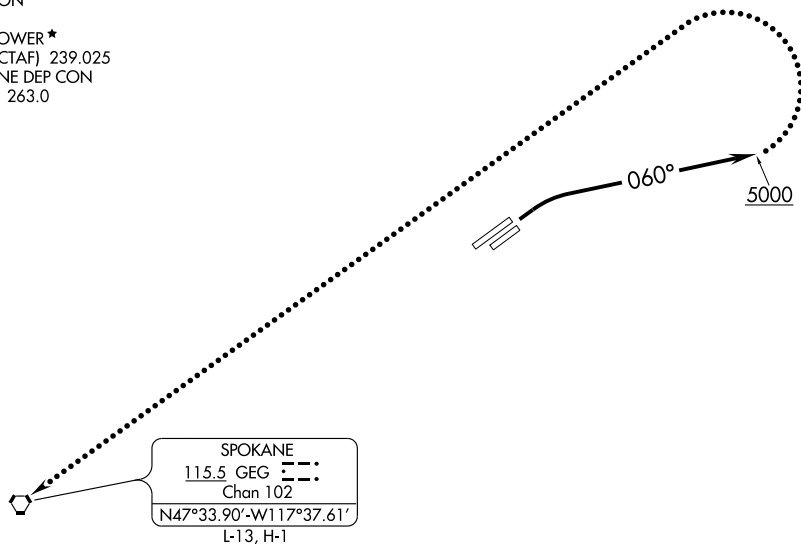
Terrain and trees beginning 3.1 NM from DER, 4904' left of centerline, up to 100' AGL/2559' MSL.

HAYDEN TWO DEPARTURE

SL-402 (FAA)

SPOKANE/FELTS FIELD (SFF)
SPOKANE, WASHINGTON

ATIS 120.55
GND CON
121.7
FELTS TOWER ★
132.5 (CTAF) 239.025
SPOKANE DEP CON
133.35 263.0



NOTE: RADAR required.

TAKE-OFF MINIMUMS

Rwy 21L/21R: NA- ATC.

Rwy 3L/3R: Standard with minimum climb of 410' per NM to 5000.

TAKE-OFF OBSTACLE NOTES

Rwy 3L: Trees beginning 1853' from DER, 772' right of centerline, up to 100' AGL/2037' MSL.

Trees beginning 3538' from DER, 529' left of centerline, up to 100' AGL/2339' MSL.

Antenna, trees and transmission poles beginning 1.5 NM from DER, 16' left of centerline, up to 100' AGL/2579' MSL.

Trees beginning 2.3 NM from DER, 723' right of centerline, up to 100' AGL/2499' MSL.

Rwy 3R: Hangar, NDB, and trees beginning 92' from DER, 269' right of centerline, up to 100' AGL/2040' MSL.

Trees beginning 4685' from DER, 1033' left of centerline, up to 100' AGL/2339' MSL.

Antenna, trees and transmission poles beginning 1.6 NM from DER, 525' left of centerline, up to 100' AGL/2559' MSL.

Trees and transmission poles beginning 2.6 NM from DER, 214' right of centerline, up to 150' AGL/2570' MSL.

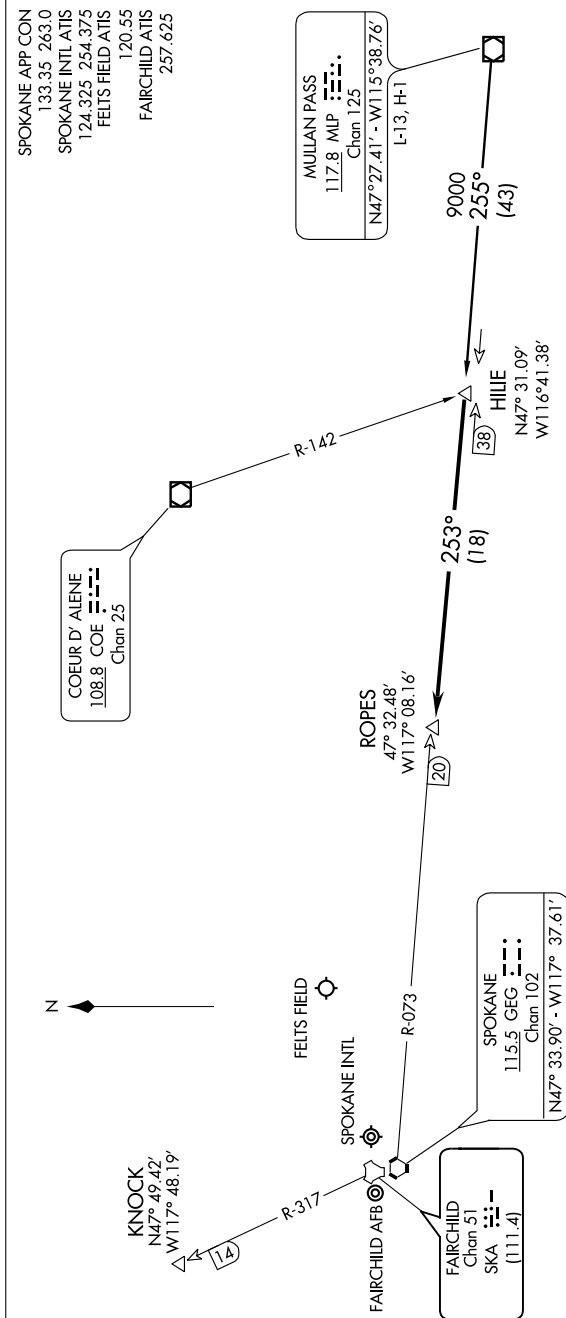
NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 3L/R: Climbing right turn heading 060° to 5000'.

Expect RADAR vectors to (assigned route) or (fix).

LOST COMMUNICATIONS: If not in radio contact with departure control after leaving 3000', continue climb to 5000', then turn left, proceed direct to GEG VORTAC and thence proceed on course.



NOTE: DME and RADAR required.
NOTE: Chart not to scale.

MULLAN PASS TRANSITION (MLP.HILIE1): From over MLP VOR/DME via MLP R-255 to HILIE INT. Thence. . .

. . . From over HILIE INT via GEG R-073 to ROPES INT. Expect radar vectors to final approach course.

LOST COMMUNICATIONS: After ROPES INT:

Landing Spokane Intl or Felts Field: Proceed to GEG VORTAC via GEG R-073, maintain last assigned altitude to GEG.

Landing Fairchild AFB: Proceed to KNOCK DME via direct, maintain last assigned altitude to KNOCK.

LOC/DME I-FLZ <u>111.7</u> Chan 54	APP CRS 218°	Rwy Idg 4500 TDZE 1953 Apt Elev 1953
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ILS/DME RWY 21R
SPOKANE / FELTS FIELD (SFF)

T Circling not authorized northwest of Rwy 3L-21 R.
A Inoperative table does not apply.

MALSR

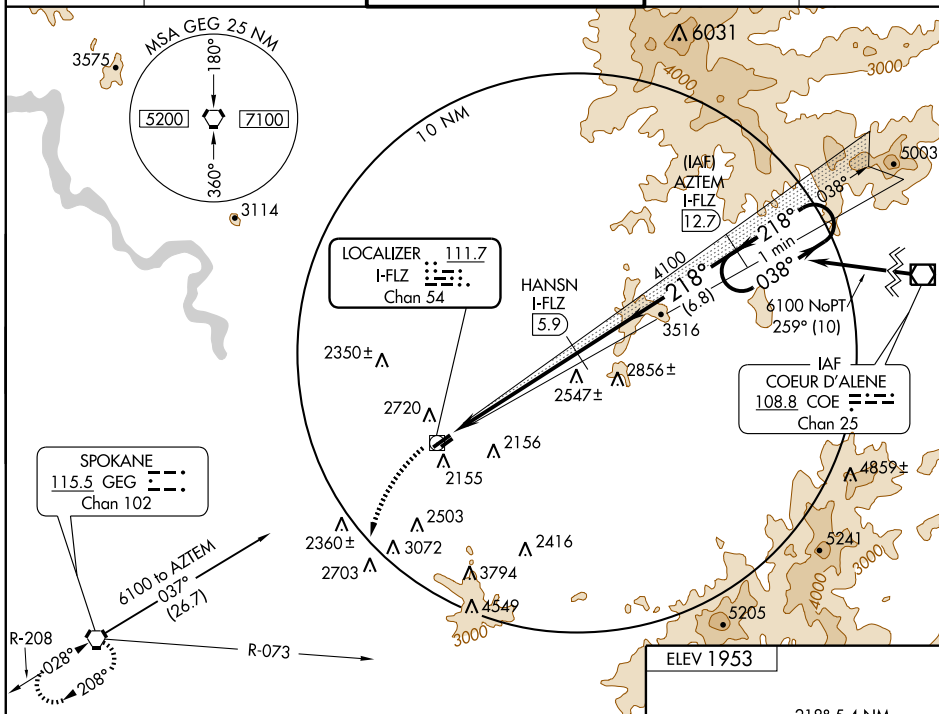
MISSED APPROACH: Climb to 3100 then climbing left turn to 5000 via heading 200° and GEG R-073 to GEG VORTAC and hold.


ATIS
120.55

SPOKANE APP CON
133.35 263.0

FELTS TOWER ★
132.5 (CTAF) **L** 239.025

GND CON
121.7

UNICOM
122.95

3100 ↑	5000 ↖ HDG 200°	GEG R-073 <u>115.5</u>	GEG  <u>115.5</u>
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AZTEM
I-FLZ 12.7

One Minute Holding Pattern

HANSN
I-FLZ 5.9

I-FLZ

408:

01

$$\frac{g^0}{g^0}$$

6

0

4



1

1

CATEGORY

S-ILS 21R

A	B	
2223-3/4	270 (300-3/4)	

2860-2 $\frac{3}{4}$
907 (1000-2 $\frac{3}{4}$)

NA

CIRCLING

2860-1¼	907 (1000-1¼)	9
---------	---------------	---

2880-2 $\frac{3}{4}$
907 (1000-2 $\frac{3}{4}$)

NA

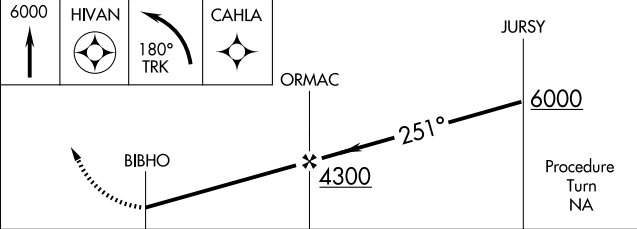
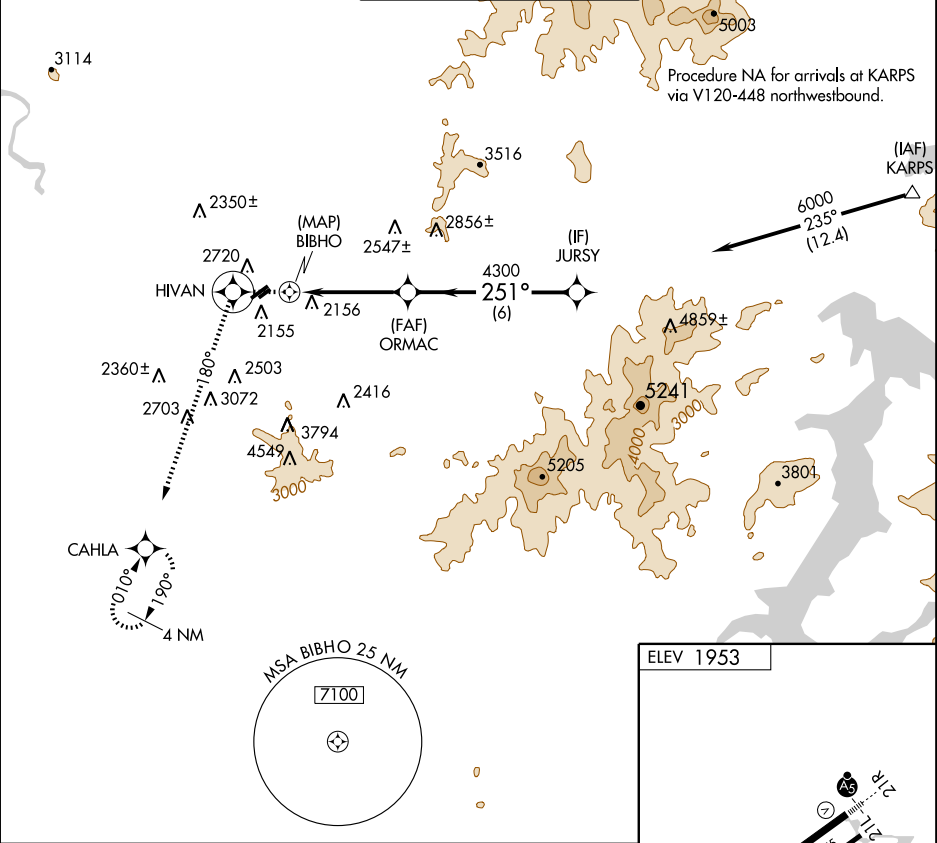
REIL Rwy 3L **L**
MIRL Rwy 3L-21R **L**

APP CRS	Rwy Idg	N/A
251°	TDZE	N/A
	Apt Elev	1953

RNAV (GPS)-A
SPOKANE / FELTS FIELD (SFF)

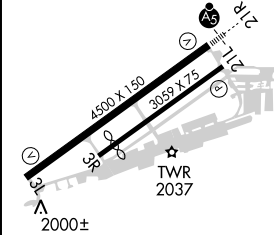
 	DME/DME RNP- 0.3 NA. Circling NA northwest of Rwy 3L-21R.	MISSED APPROACH: Climb to 6000 direct HIVAN and left turn via 180° track to CAHLA and hold.
--	--	--

ATIS 120.55	SPOKANE APP CON 133.35 263.0	FELTS TOWER ★ 132.5 (CTAF) 239.025	GND CON 121.7	UNICOM 122.95
----------------	---------------------------------	---------------------------------------	------------------	------------------



CATEGORY	A	B	C	D
CIRCLING	2880-1¼ 927 (1000-1¼)	2880-2¾ 927 (1000-2¾)	2880-3 927 (1000-3)	2880-3 927 (1000-3)

ELEV 1953



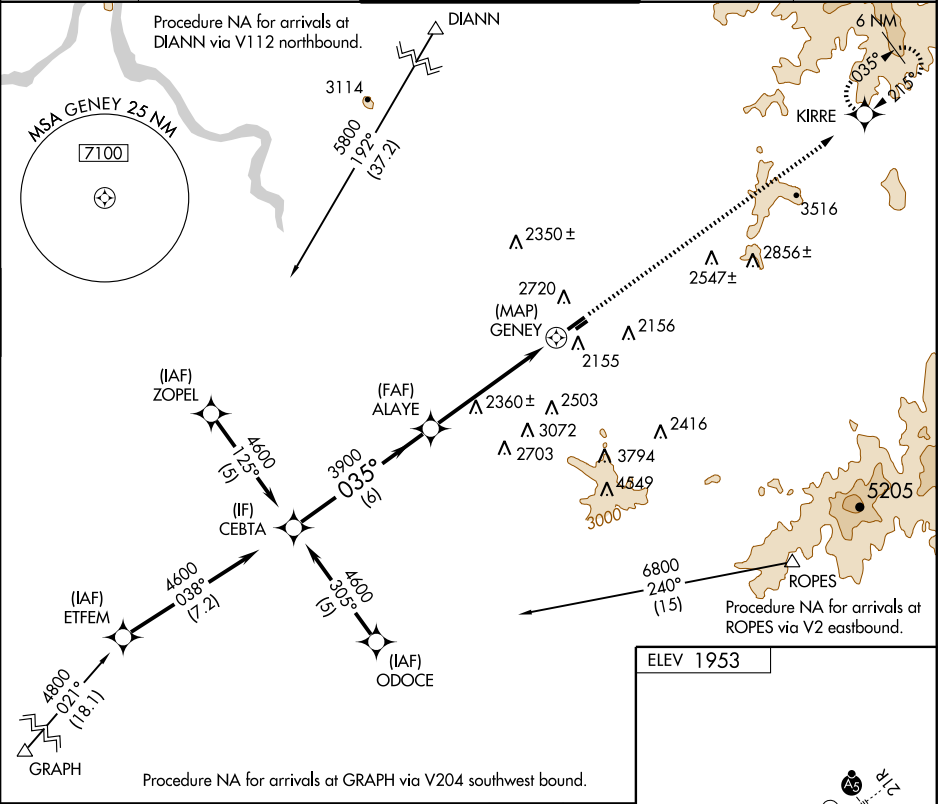
REIL Rwy 3L 0
MIRL Rwy 3L-21R 0

APP CRS	Rwy Idg	4500
035°	TDZE	1945
	Apt Elev	1953

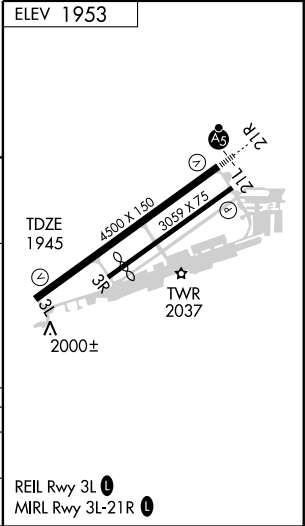
RNAV (GPS) RWY 3L

SPOKANE / FELTS FIELD (SFF)

<div><div>V</div><div>A</div></div>	Circling NA northwest of Rwy 3L-21R. Circling NA at night to Rwy 3R-21L. DME/DME RNP- 0.3 NA.	MISSED APPROACH: Climb to 7100 direct KIRRE and hold.		
ATIS 120.55	SPOKANE APP CON 133.35 263.0	FELTS TOWER ★ 132.5 (CTAF) 0 239.025	GND CON 121.7	UNICOM 122.95



	CEBTA	ALAYE	GENEY	7100	KIRRE
	4600				
Procedure Turn NA	035°	3900	2.99° TCH 50		
	6 NM	5.5 NM	0.5		
CATEGORY	A	B	C	D	
RNAV MDA	2880-1¼ 935 (1000-1¼)		2880-2¾ 935 (1000-2¾)	2880-3 935 (1000-3)	
CIRCLING	2880-1¼ 927 (1000-1¼)		2880-2¾ 927 (1000-2¾)	2880-3 927 (1000-3)	



VORTAC GEG	APP CRS	Rwy Idg	4500
115.5	039°	TDZE	1945
Chan 102		Apt Elev	1953

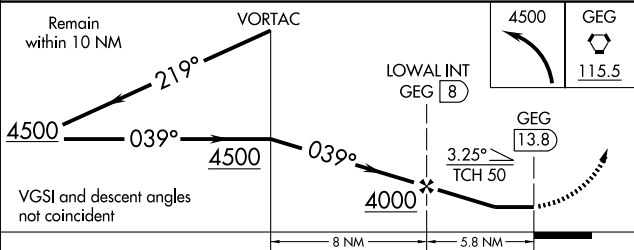
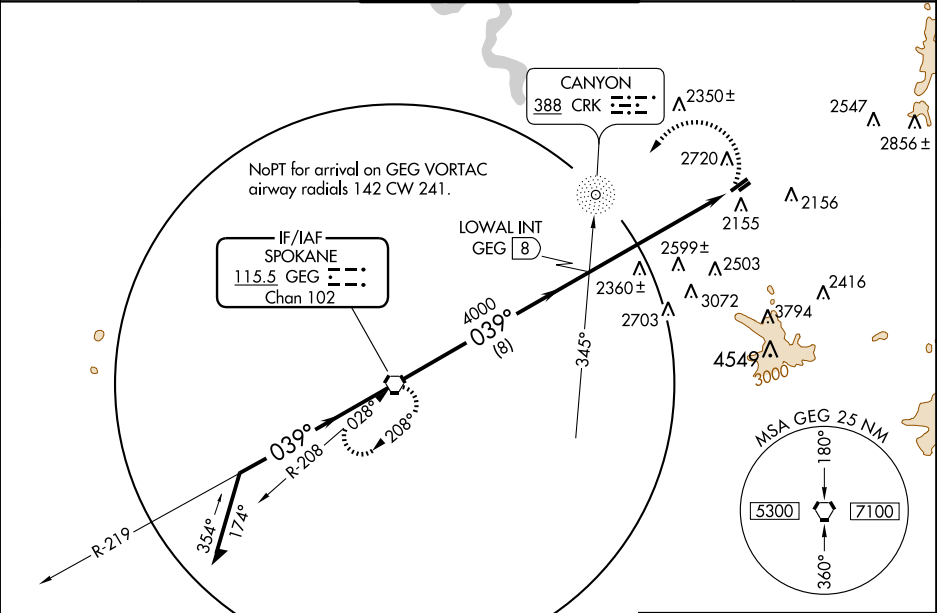
VOR RWY 3L

SPOKANE / FELTS FIELD (SFF)

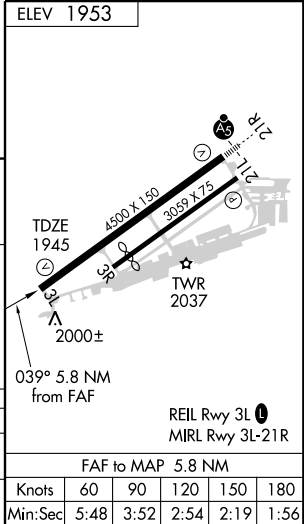
- ⚠ Circling NA northwest of Rwy 3L-21R.
Visibility reduction by helicopters NA.
ADF or DME required.
When local altimeter setting not received, use Spokane altimeter setting and increase all MDA 100 feet.

MISSED APPROACH: Climbing left turn to 4500 direct GEG VORTAC and hold.

ATIS	SPOKANE APP CON	FELTS TOWER ★	GND CON	UNICOM
120.55	133.35 263.0	132.5 (CTAF) 239.025	121.7	122.95



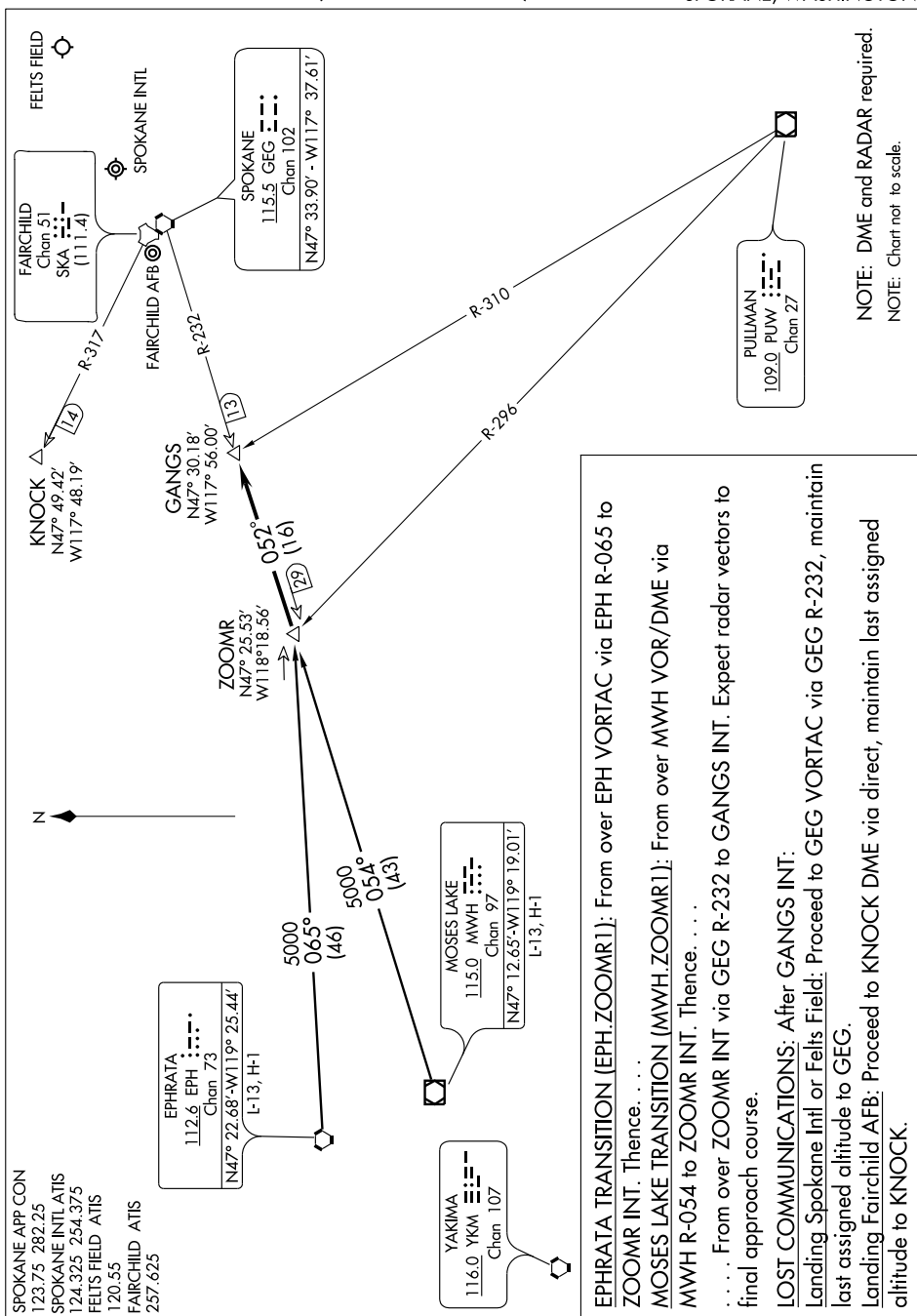
CATEGORY	A	B	C	D
S-3L	2920-1¼ 975 (1000-1¼)	2920-1½ 975 (1000-1½)	2920-3 975 (1000-3)	
CIRCLING	2920-1¼ 967 (1000-1¼)	2920-1½ 967 (1000-1½)	2920-3 967 (1000-3)	



FAF to MAP 5.8 NM					
Knots	60	90	120	150	180
Min:Sec	5:48	3:52	2:54	2:19	1:56

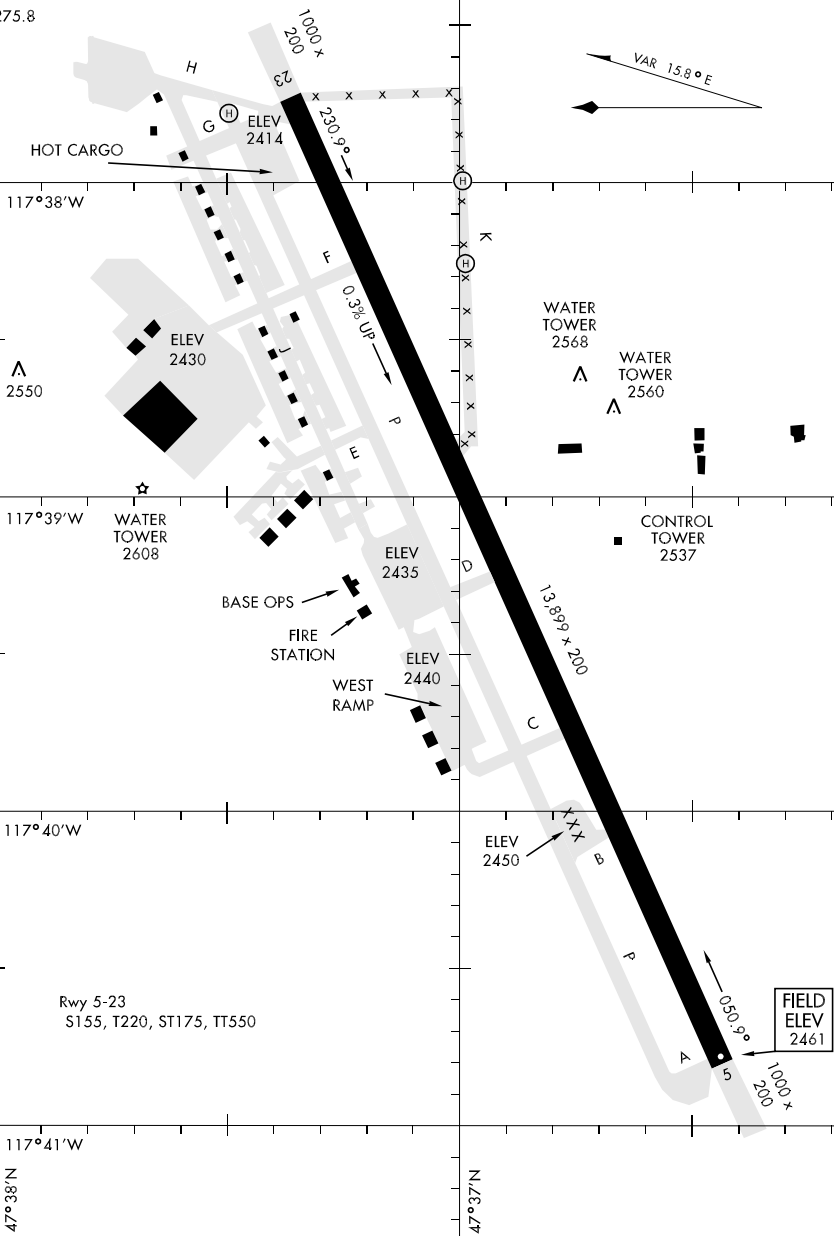
ZOOMR ONE ARRIVAL (ZOOMR.ZOOMR1)

SPOKANE, WASHINGTON

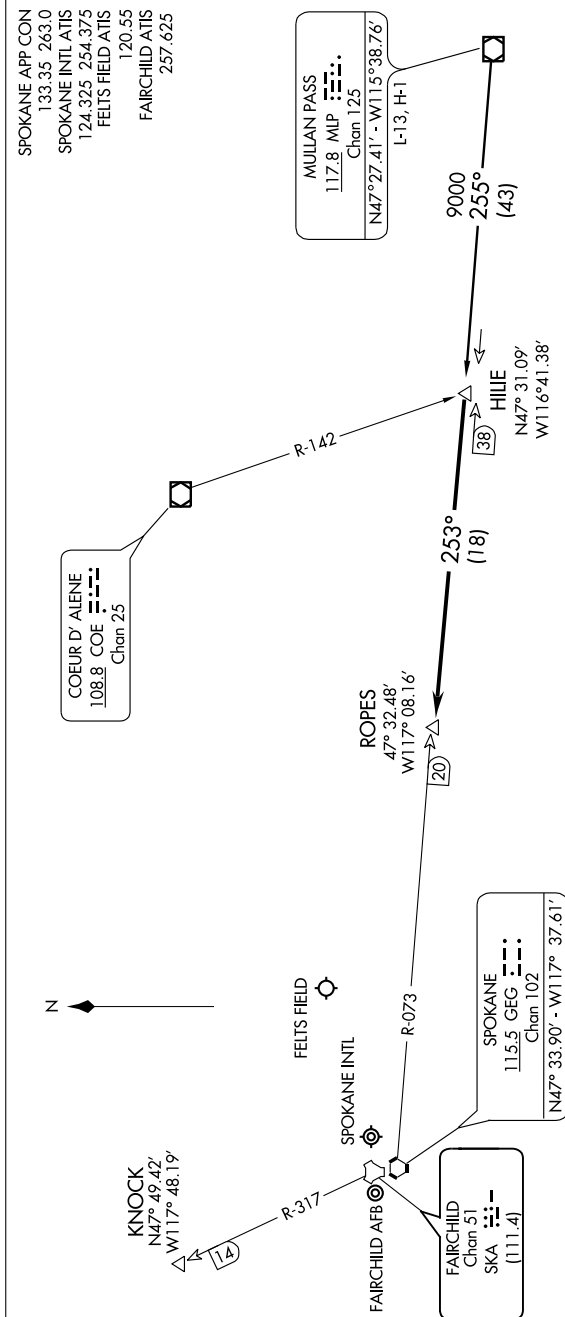


ATIS 257.625
FAIRCHILD TOWER
120.35 233.7
GND CON
123.6 275.8

APRIL 2010
ANNUAL RATE OF CHANGE
0.2° W



NW-1, 03 JUN 2010 to 01 JUL 2010



NOTE: DME and RADAR required.
NOTE: Chart not to scale.

MULLAN PASS TRANSITION (MLP.HILIE1): From over MLP VOR/DME via MLP R-255 to HILIE INT. Thence. . .

. . . From over HILIE INT via GEG R-073 to ROPES INT. Expect radar vectors to final approach course.

LOST COMMUNICATIONS: After ROPES INT:

Landing Spokane Intl or Felts Field: Proceed to GEG VORTAC via GEG R-073, maintain last assigned altitude to GEG.

Landing Fairchild AFB: Proceed to KNOCK DME via direct, maintain last assigned altitude to KNOCK.

LOC I-FRC 110.3	APCH CRS 048°	Rwy Idg 13,899 TDZE 2461 Arpt Elev 2461
---------------------------	-------------------------	--

AL-553 [USAF]

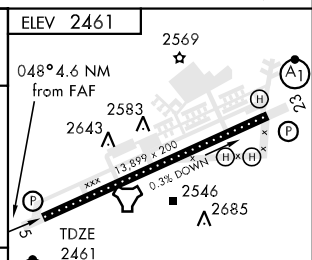
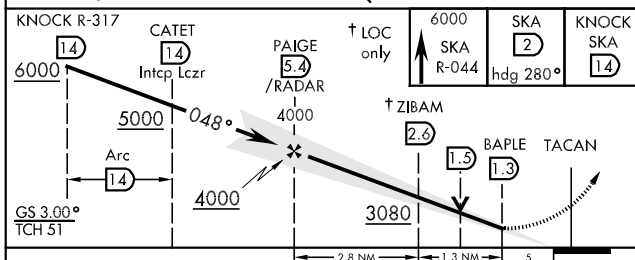
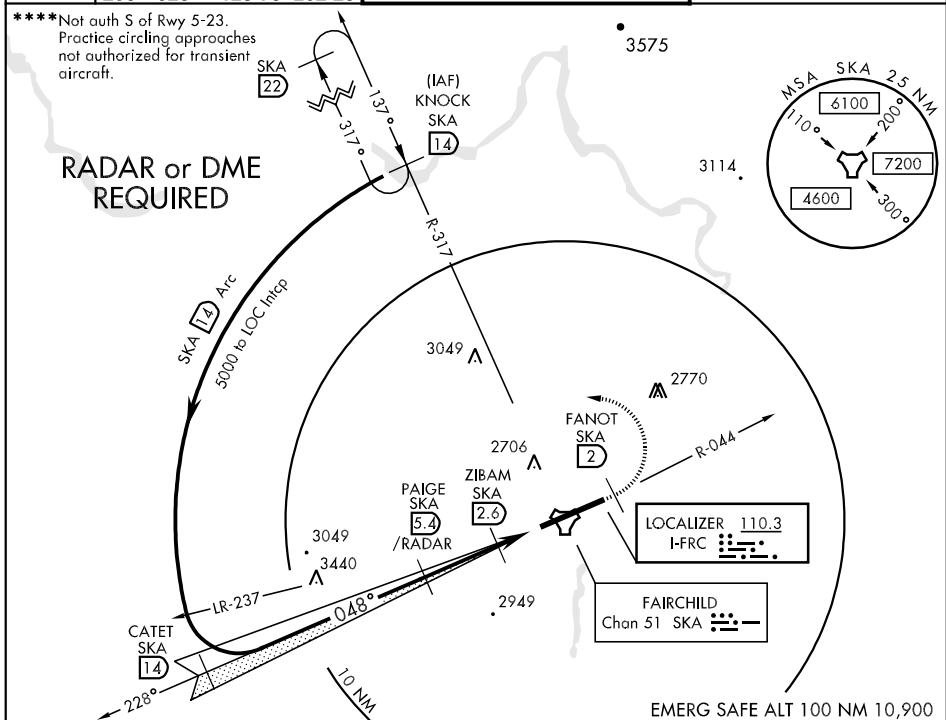
FAIRCHILD AFB (KSKA)

▼ * When ALS inop, increase vis to ¾ mile, RVR to 40.
 When TDZL/CL lights inop, increase CAT ABCD RVR to 24.
 ** When ALS inop increase vis to 1 mile, RVR to 50.
 *** When ALS inop, increase CAT AB vis to 1 mile, RVR to 50,
 CAT CD vis to 1¼ miles, RVR to 60, CAT E vis to 1½ miles.



MISSED APPROACH: Climb to 6000 via SKA R-044.
 At SKA 2 DME turn left hdg 280° to intcp SKA R-317
 to KNOCK and hold, continue climb in hold to 6000.

ATIS 257.625	SPOKANE APP CON 026°-204° 133.35 263.0 205°-025° 123.75 282.25	FAIRCHILD TOWER 120.35 233.7	GND CON 123.6 275.8
------------------------	--	--	-------------------------------



CATEGORY	A	B	C	D	E
S-ILS 5 *	2661/18 200 (200-½)				2661/24 200 (200-½)
S-LOC/ DME 5	2740/24 279 (300-½)	2740/40 279 (300-¾)			
S-LOC 5 ***	2880/24 419 (500-½)	2880/40 419 (500-¾)			
CIRCLING ****	3480-1¼ 1019 (1100-1¼)	3480-1½ 1019 (1100-1½)	3480-3 1019 (1100-3)		

HIRL Rwy 5-23 TDZL/CL Rwy 5-23	FAF to MAP 4.1 NM				
Knots	60	90	120	150	180
Min:Sec	4:06	2:44	2:03	1:38	1:22

LOC I-SKA
110.3

PCH CRS
228 °

Rwy Idg	13,899
TDZE	2422
Arpt Elev	2461

AL-553 [USAF]

FAIRCHILD AFB (KSKA)

T * When ALS inop, increase vis to $\frac{3}{4}$ mile, RVR to 40.
When TDZL/CL lights inop, increase CAT ABCD RVR to 24.
** When ALS inop, increase vis to 1 mile, RVR to 50.

ALSF-1

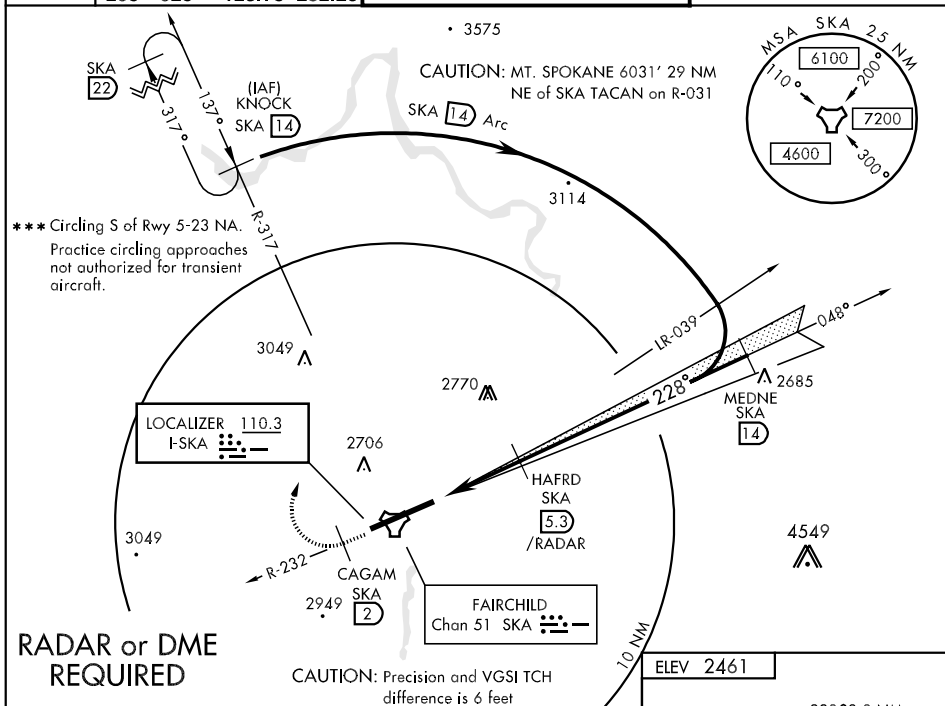
MISSED APPROACH: Climb to 6500 via SKA R-232. At SKA 2 DME, turn right heading 340° to intcp SKA R-317 to KNOCK and hold, continue climb in hold to 6500.

ATIS
257.625

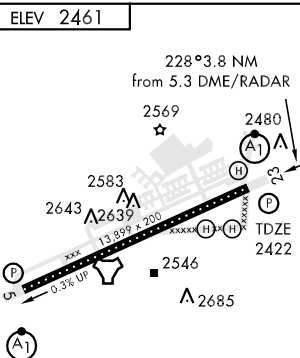
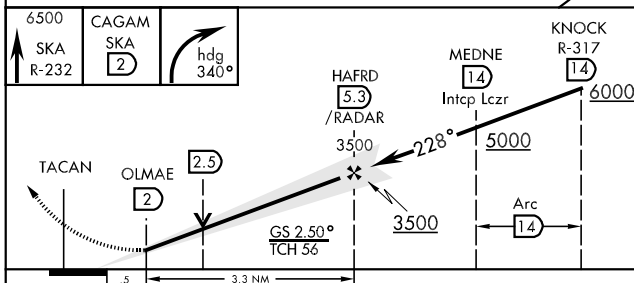
SPOKANE APP CON		
026°-204°	133.35	263.0
205°-025°	123.75	282.25

FAIRCHILD TOWER
120.35 233.7

GND CON	
123.6	275.8



EMERG SAFE ALT 100 NM 10,900



CATEGORY	A	B	C	D	E
S-ILS 23 *	2622/18 200 (200-½)				2622/24 200(200-½)
S-LOC 23 **	2720/24 298 (300-½)	2720/40 298 (300-¾)			
CIRCLING ***	3480-1¼ 1019 (1100-1¼)	3480-1½ 1019 (1100-1½)	3480-3 1019 (1100-3)		

FAF to MAP 3.3 NM					
Knots	60	90	120	150	180
Min:Sec	3:18	2:12	1:39	1:19	1:06

TACAN SKA Chan 51	APCH CRS 057°	Rwy Idg 13,899 TDZE 2461 Arpt Elev 2461
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AL-553 [USAF]

FAIRCHILD AFB (KSKA)

▼ * When ALS inop, CAT ABC vis to 1 mile, RVR to 50,
CAT DE vis to 1¼ miles, RVR to 60.



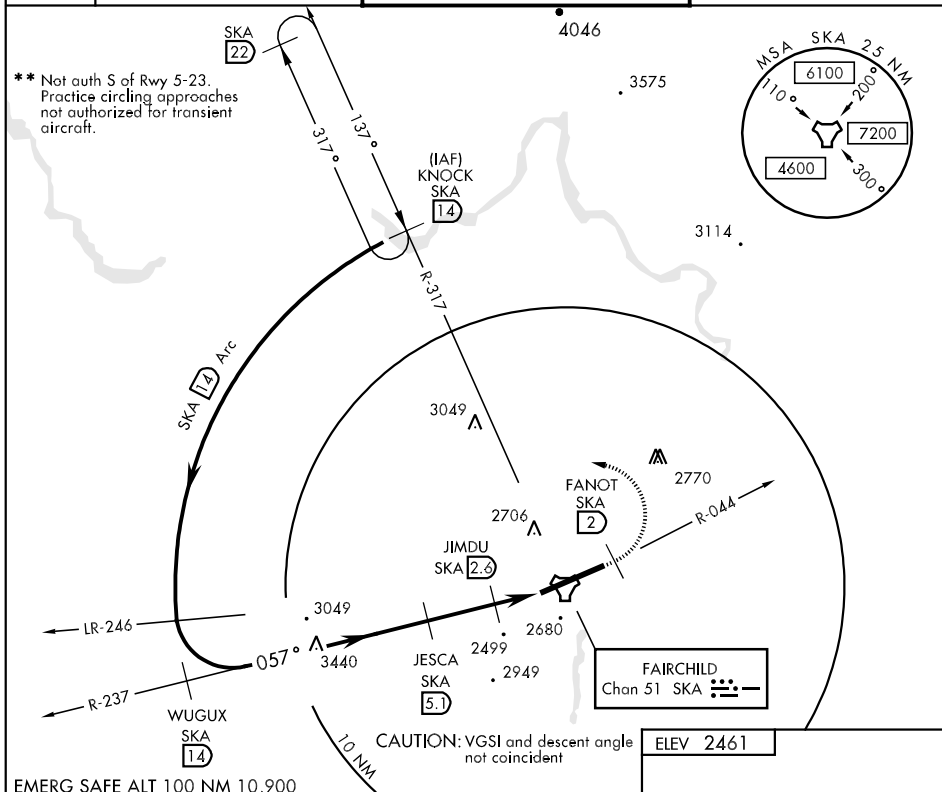
MISSED APPROACH: Climb to 6000 via SKA R-044.
At SKA 2 DME turn left hdg 280° to intcp SKA R-317
to KNOCK and hold, continue climb in hold to 6000.

ATIS 257.625	SPOKANE APP CON 026°-204° 133.35 263.0 205°-025° 123.75 282.25
------------------------	--

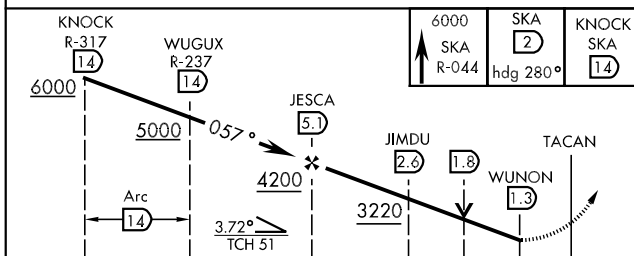
FAIRCHILD TOWER
120.35 233.7

GND CON
123.6 275.8

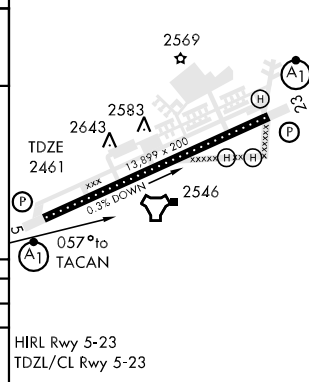
** Not auth S of Rwy 5-23.
Practice circling approaches
not authorized for transient
aircraft.



EMERG SAFE ALT 100 NM 10,900



CATEGORY	A	B	C	D	E
S-5 *	2820/24	359 (400-½)	2820/40	359 (400-¾)	
CIRCLING **	3480-1¼ 1019 (1100-1¼)	3480-1½ 1019 (1100-1½)	3480-3	1019 (1100-3)	



TACAN SKA Chan 51	APCH CRS 226°	Rwy Ldg 13,899 TDZE 2422 Arpt Elev 2461
-----------------------------	-------------------------	--

AL-553 [USAF]

FAIRCHILD AFB (KSKA)

T * When ALS inop, increase CAT AB vis to 1 mile, RVR to 50, CAT CD vis to 1¼ mile, RVR to 60, CAT E vis to 1½ miles.

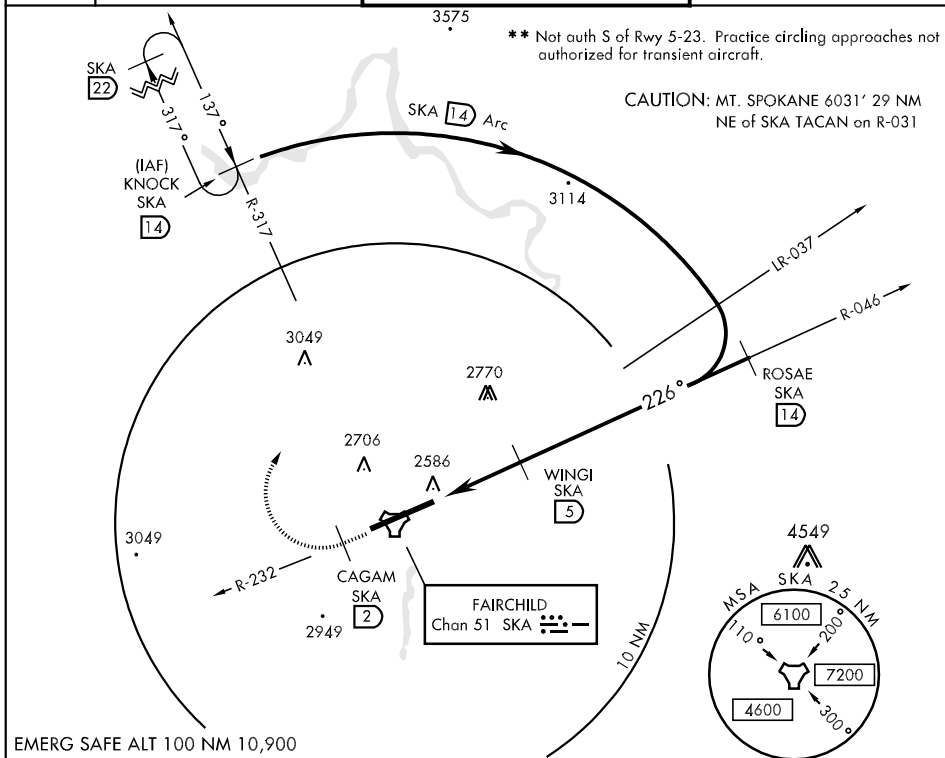


MISSED APPROACH: Climb to 6500 via SKA R-232. At SKA 2 DME, turn right heading 340° to intcp SKA R-317 to KNOCK and hold, continue climb in hold to 6500.

ATIS	SPOKANE APP CON			
257.625	026°-204°	133.35	263.0	
	205°-025°	123.75	282.25	

FAIRCHILD TOWER
120.35 233.7

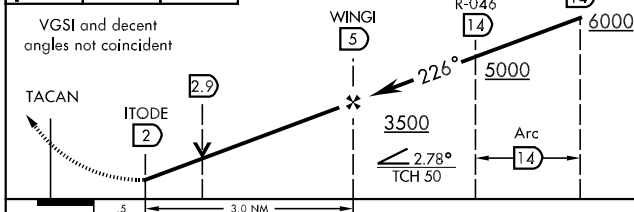
GND CON
123.6 275.8



EMERG SAFE ALT 100 NM 10,900

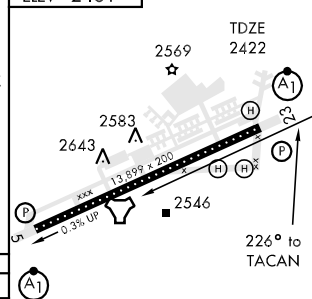
6500 ↑ SKA R-232	CAGAM SKA 2	hdg 340°
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VGSI and decent
angles not coincident



CATEGORY	A	B	C	D	E
S-TAC 23 *	2840/24 418 (400-½)		2840/40 418 (400-¾)		2840/50 418 (400-1)
CIRCLING **	3480-1¼ 1019 (1100-1¼)	3480-1½ 1019 (1100-1½)	3480-3 1019 (1100-3)		

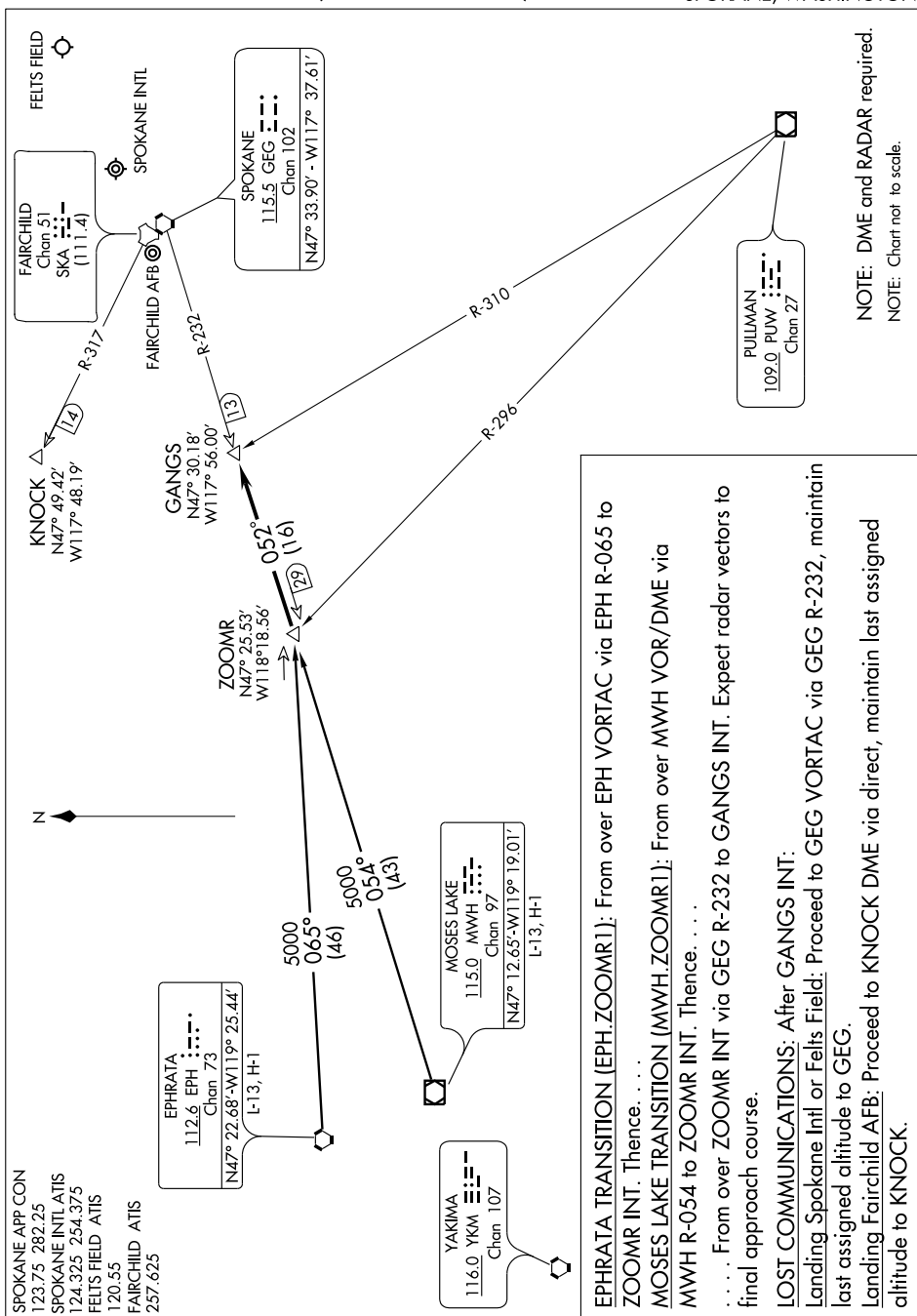
ELEV 2461



HIRL Rwy 5-23
TDZL/CL Rwy 5-23

ZOOMR ONE ARRIVAL (ZOOMR.ZOOMR1)

SPOKANE, WASHINGTON



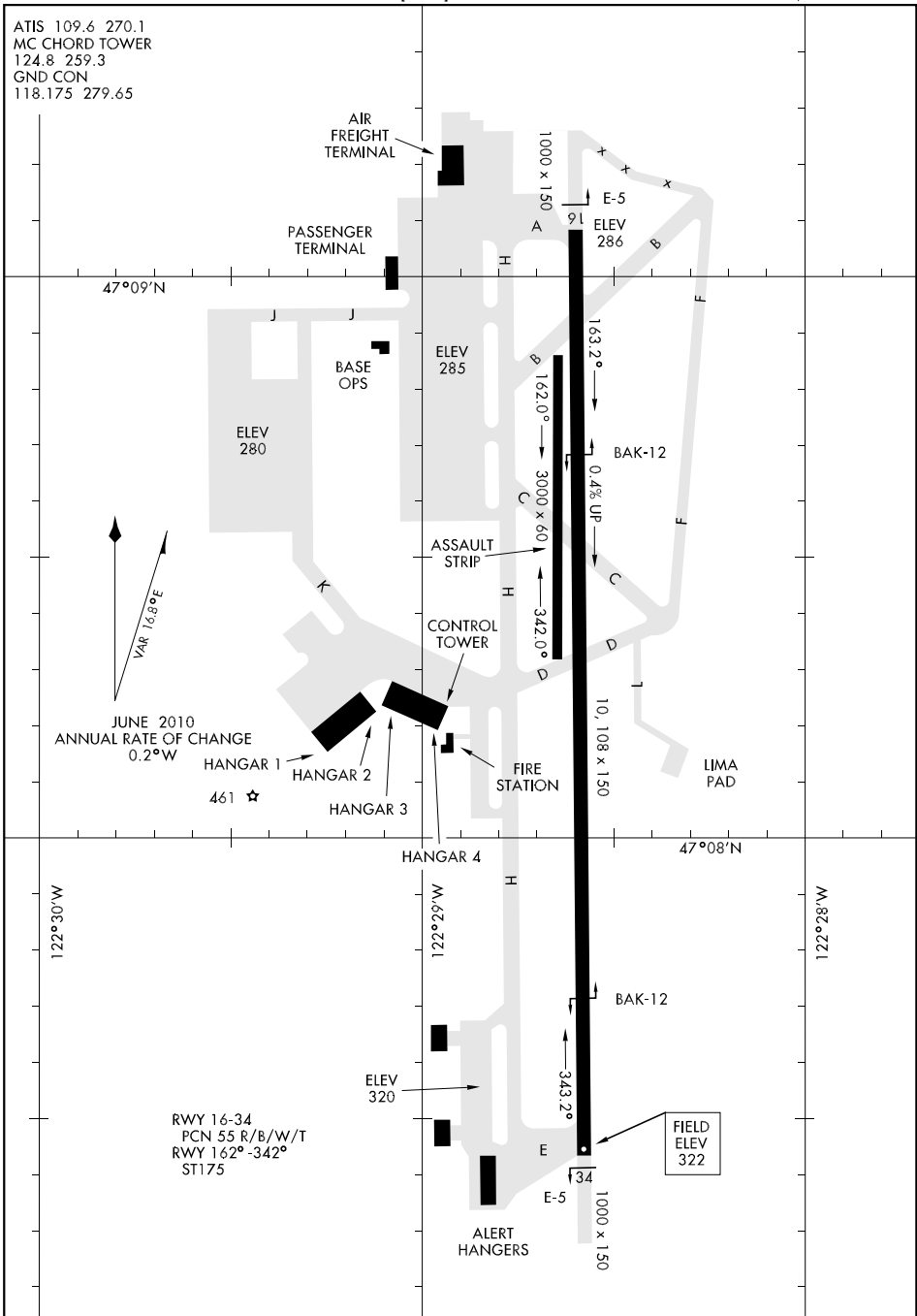
AIRPORT DIAGRAM

[USAF] AFD-414

TACOMA, WASHINGTON

ATIS 109.6 270.1
MC CHORD TOWER
124.8 259.3
GND CON
118.175 279.65

NW-1, 03 JUN 2010 to 01 JUL 2010



AIRPORT DIAGRAM

TACOMA, WASHINGTON

ALDER-NINE DEPARTURE (ALDER9 • ALDER)

TACOMA, WASHINGTON
MC CHORD FIELD (R-101)

ATIS
109.6 270.1
GND CON
118.175 279.65
MC CHORD TOWER
124.8 259.3
SEATTLE DEP CON
126.5 377.15

SL-414 [USAF]

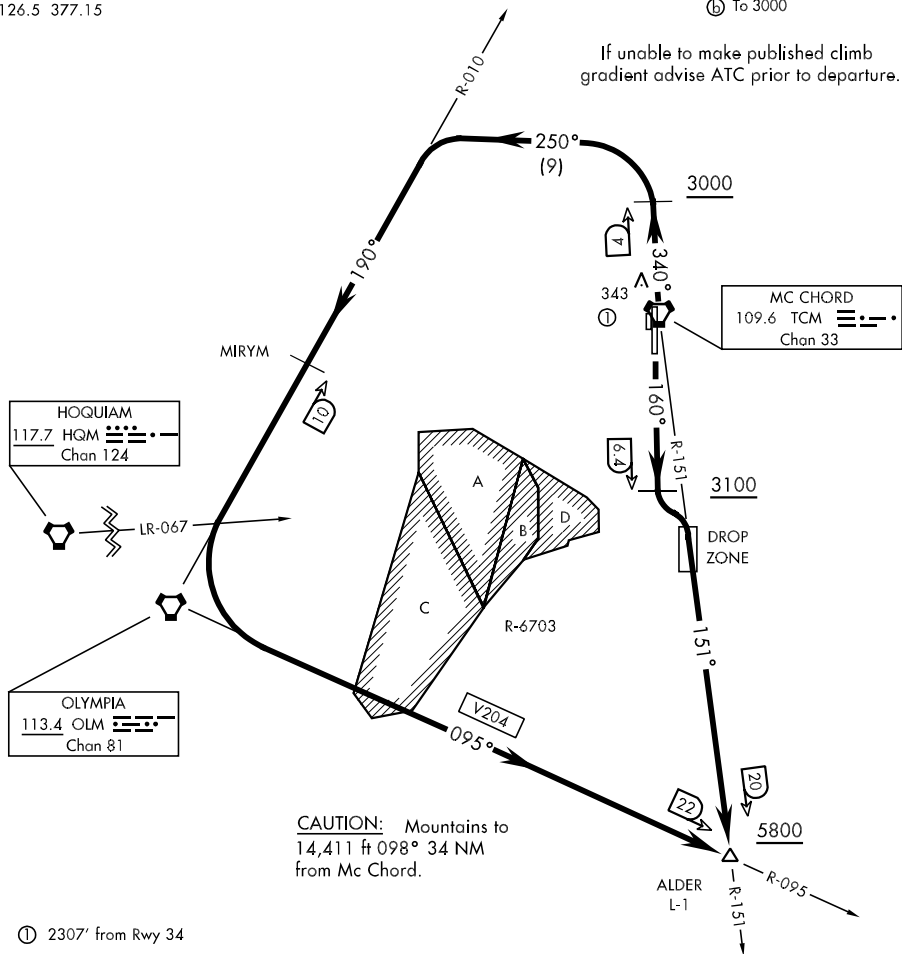
Rwy	Knots	60	120	180	240
16 (A) V/V(fpm)		560	1120	1680	2240
34 (B) V/V(fpm)		730	1450	2180	2890

ATC Climb Rate

(A) To 3100

(B) To 3000

If unable to make published climb gradient advise ATC prior to departure.



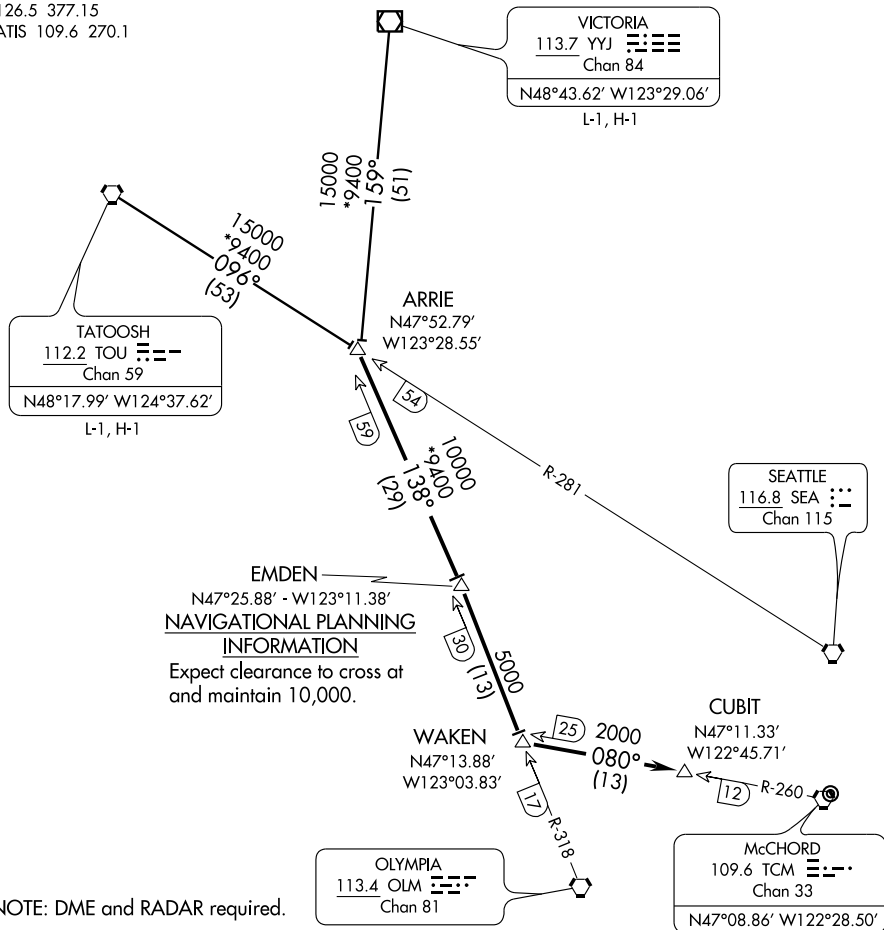
DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 16: Track heading 160° to TCM VORTAC 6.4 DME, then turn left to intercept the TCM R-151 to ALDER. Cross TCM 6.4 DME at or above 3100, cross ALDER at or above 5800.

TAKE-OFF RWY 34: Climb on track 340° to TCM VORTAC 4 DME. Cross TCM 4 DME at or above 3000, then turn left heading 250° to intercept OLM VORTAC R-010/10 DME (MIRYM) to OLM VORTAC. Then via V204 (OLM R-095) to ALDER. Cross ALDER at or above 5800.

ARRIE FIVE ARRIVAL

ST-414 (FAA)

McCHORD FIELD
TACOMA, WASHINGTONSEATTLE APP CON
126.5 377.15
ATIS 109.6 270.1

TATOOSH TRANSITION (TOU.ARRIE5): From over TOU VORTAC via TOU R-096 to ARRIE DME Fix. Thence. . .

VICTORIA TRANSITION (YYJ.ARRIE5): From over YYJ VOR/DME via YYJ R-159 to ARRIE DME Fix. Thence. . .

. . . From over ARRIE DME Fix via OLM R-318 and TCM R-260 to CUBIT DME fix. Expect radar vectors to final approach course.

LOST COMMUNICATIONS: Proceed direct to TCM VORTAC.



LOC I-MAR 109.9	APCH CRS 160°	Rwy Idg 10,108 TDZE 286 Arpt Elev 322
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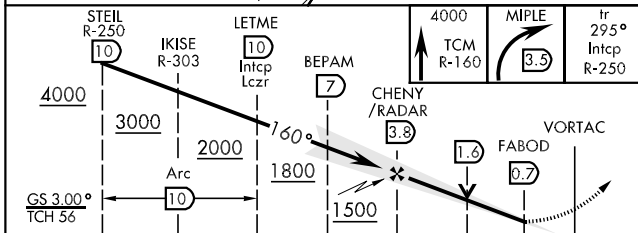
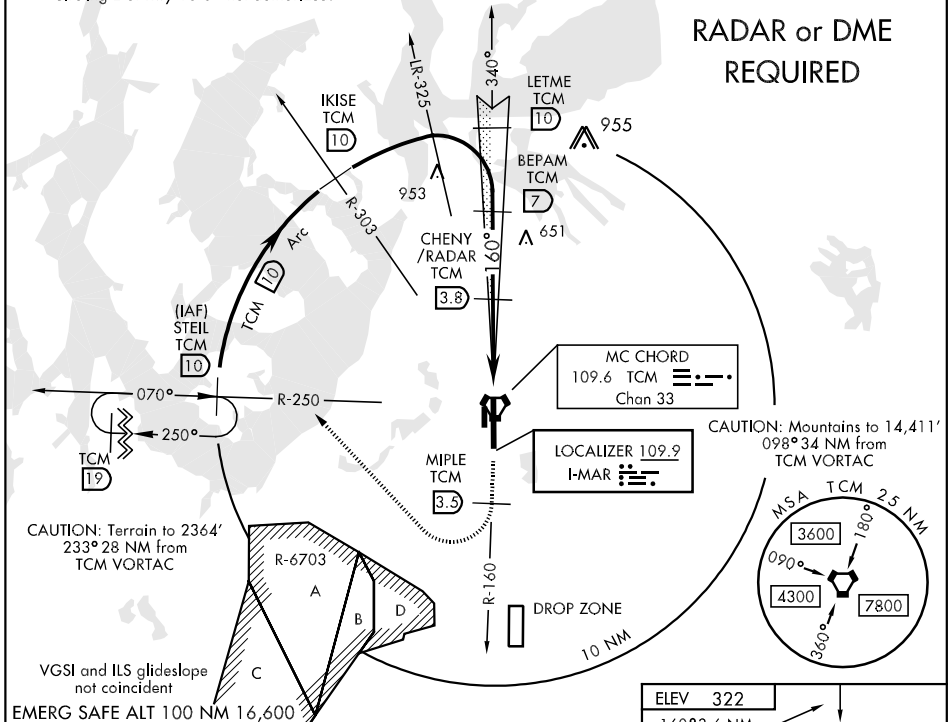
AL-414 [USAF]

MC CHORD FIELD (KTCM)

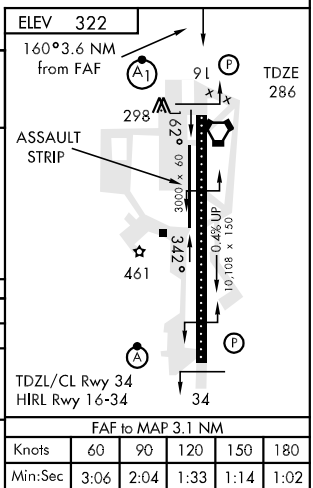
▼ ** When ALS inop, increase vis to $\frac{3}{4}$ mile, RVR to 40.
 ** When ALS inop, increase CAT AB RVR to 50, vis to 1 mile, CAT C vis to $1\frac{1}{2}$ miles, CAT DE vis to $1\frac{3}{4}$ miles.

ATIS 109.6 270.1	SEATTLE APP CON 126.5 377.15	MC CHORD TOWER 124.8 259.3	GND CON 118.175 279.65
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*** Circling E of Rwy 16-34 not authorized.



CATEGORY	A	B	C	D	E
S-ILS 16*	486/18 200 (200- $\frac{1}{2}$)	486/24 200 (200- $\frac{1}{2}$)	800/50 514 (500-1)	800/60 514 (500- $\frac{1}{4}$)	
S-LOC 16**	800/40 514 (500- $\frac{3}{4}$)				
CIRCLING***	940-1 618 (700-1)	940-1 $\frac{3}{4}$ 618 (700- $\frac{1}{4}$)	940-2 618 (700-2)	940-2 $\frac{1}{4}$ 618 (700-2 $\frac{1}{4}$)	



LOC I-TCM 108.5	APCH CRS 340°	Rwy Idg 10,108 TDZE 322 Arpt Elev 322
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AL-414 [USAF]

MC CHORD FIELD (KTCM)

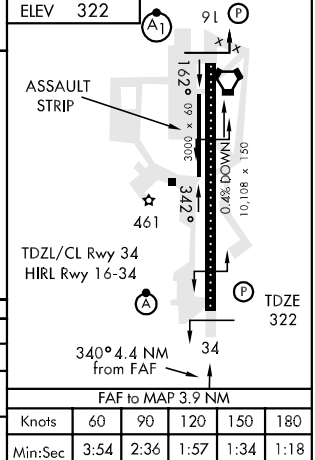
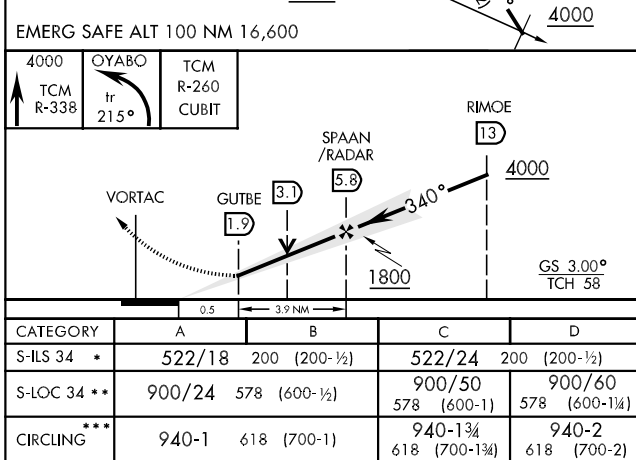
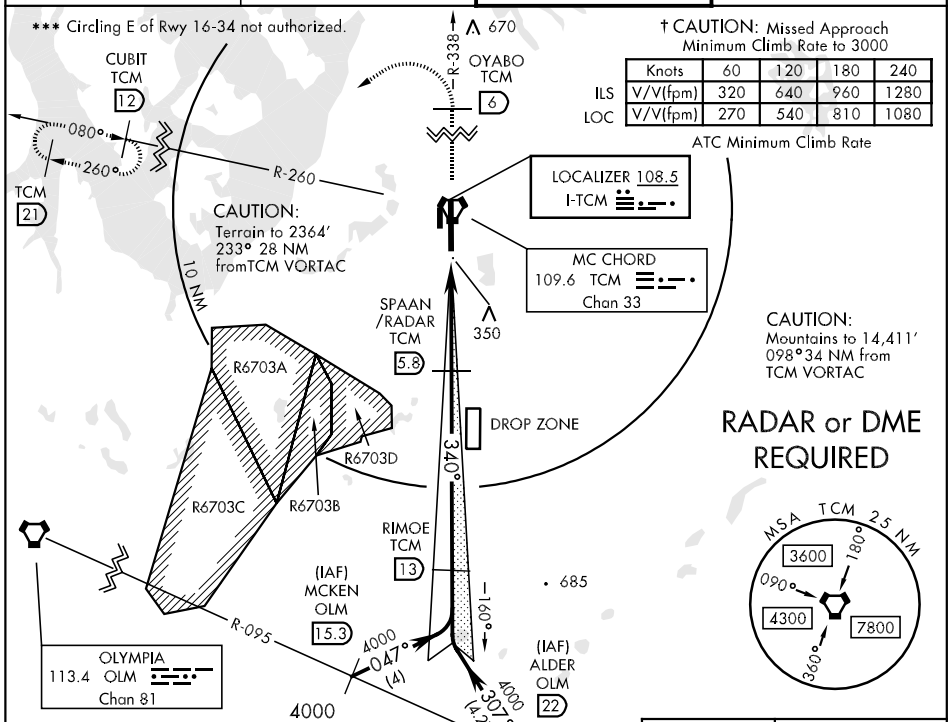
▼ * When ALS inop, increase vis $\frac{3}{4}$ mile, RVR to 40.
 ** When ALS inop, increase CAT AB vis to 1 mile,
 RVR to 50, CAT C vis to $1\frac{1}{2}$ miles, CAT D vis to
 $1\frac{3}{4}$ miles.

ALSF-2



† MISSED APPROACH: Climb to 4000 on TCM VORTAC
 R-338 to OYABO, then turn left via 215° course to
 intercept TCM R-260 to CUBIT and hold, continue climb
 in hold to 4000. Cross OYABO at or above 3000.

ATIS 109.6 270.1	SEATTLE APP CON 126.5 377.15	MC CHORD TOWER 124.8 259.3	GND CON 118.175 279.65
----------------------------	--	--------------------------------------	----------------------------------



LOC I-TCM <u>108.5</u>	APCH CRS 340°	Rwy Idg 10,108 TDZE 322 Arpt Elev 322
----------------------------------	-------------------------	--

AL-414 [USAF]

MC CHORD FIELD (KTCM)

T * When ALS inop, increase vis $\frac{3}{4}$ mile, RVR to 40.
* * When ALS inop, increase CAT AB vis to 1 mile,
RVR to 50, CAT C vis to $1\frac{1}{2}$ miles, CAT D vis to
 $1\frac{3}{4}$ miles.

ALSF-2

† MISSED APPROACH: Climb to 4000 on TCM VORTAC R-338 to OYABO, then turn left via 215° course to intercept TCM R-260 to CUBIT and hold, continue climb in hold to 4000. Cross OYABO at or above 3000.

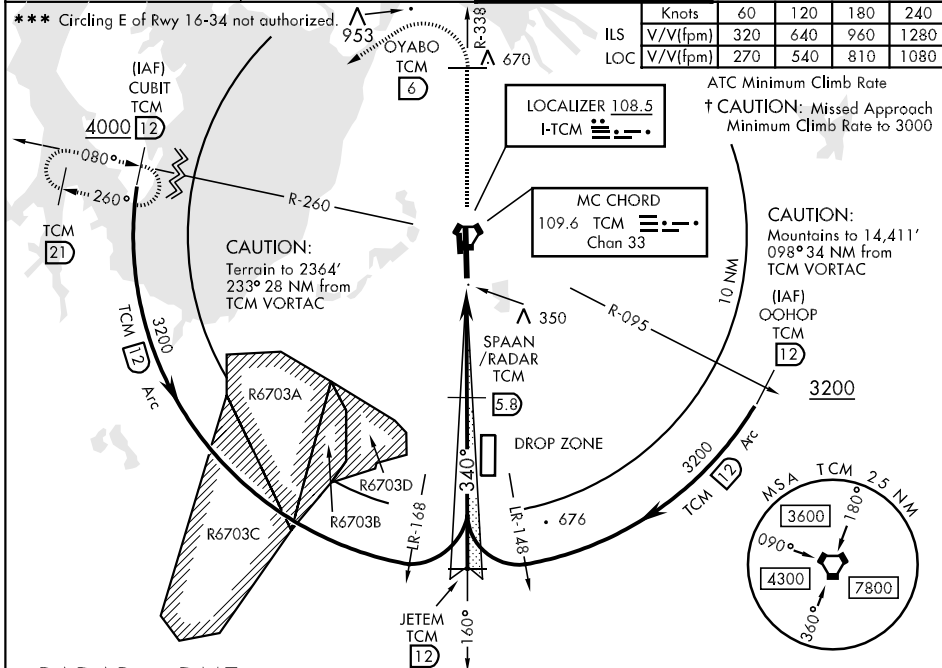
ATIS
109.6 270.1

SEATTLE APP CON
126.5 377.15

MC CHORD TOWER
124.8 259.3

GND CON	
118.175	279.65

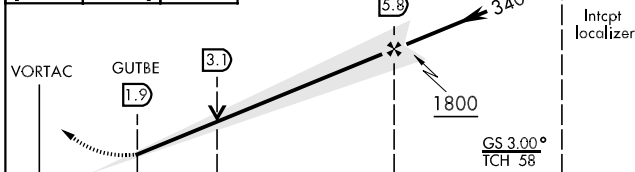
*** Circling E of Rwy 16-34 not authorized.



RADAR or DME
REQUIRED

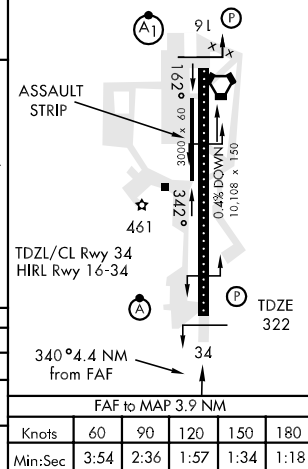
EMERG SAFE ALT 100 NM 16,600

4000 TCM R-338	QYABO tr 215°	TCM R-260 CUBIT
----------------------	---------------------	-----------------------



	0.5	3.9 NM		
CATEGORY	A	B	C	D
S-ILS 34 *	522/24		200	[200-½]
S-LOC 34 **	900/24	578 (600-½)	900/50 578 (600-1)	900/60 578 (600-1¼)
CIRCLING ***	940-1	618 (700-1)	940-1½ 618 (700-1¾)	940-2 618 (700-2)

ELEV 322



TACOMA, WASHINGTON

47°08'N-122°29'W

MC CHORD FIELD (KTCM)

Orig 10154

H3 LOG 3 BAY 0.4

NW-1, 03 JUN 2010 to 01 JUL 2010

$$\begin{array}{r} 10,108 \\ 322 \\ \hline 322 \end{array}$$

ILS RWY 34 (CAT

LOC I-TCM
108.5

APCH C
340°

Rwy Idg	
TDZE	
Arpt Elev	

AL-414 [USAF]

MC CHORD FIELD (KTCM)



† MISSED APPROACH: Climb to 4000 on TCM VORTAC R-338 to OYABO, then turn left via 215° course to intercept TCM R-260 to CUBIT and hold, continue climb in hold to 4000. Cross OYABO at or above 3000.

ATIS
109.6 270.1

SEATTLE APP CON
126.5 377.15

MC CHORD TOWER
124.8 259.3

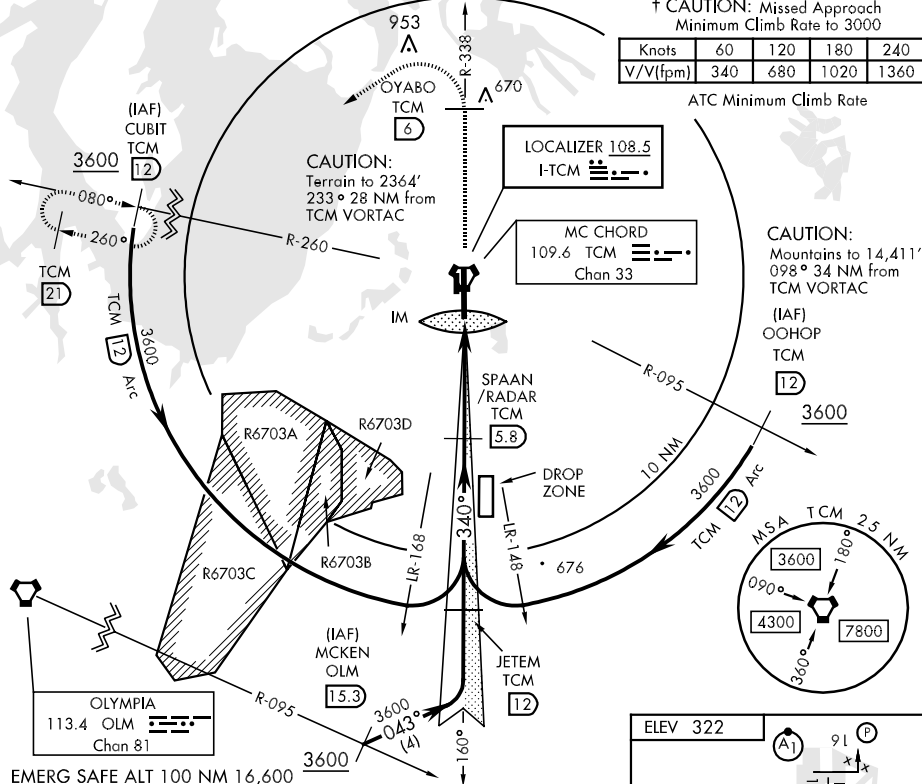
GND CON
118.175 279.65

CATEGORY II ILS-SPECIAL AIRCREW & AIRCRAFT CERTIFICATION REQUIRED

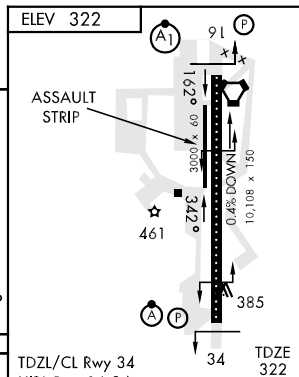
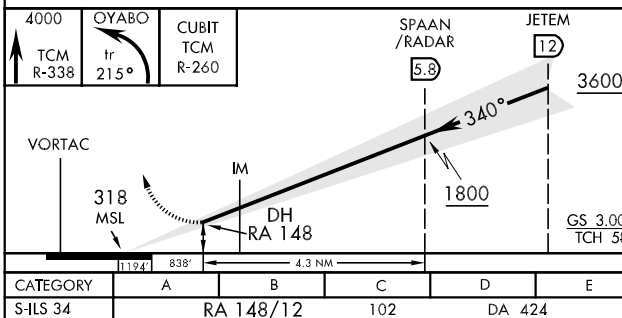
† CAUTION: Missed Approach
Minimum Climb Rate to 3000

Knots	60	120	180	240
V/V(fpm)	340	680	1020	1360

ATC Minimum Climb Rate



EMERG SAFE ALT 100 NM 16,600

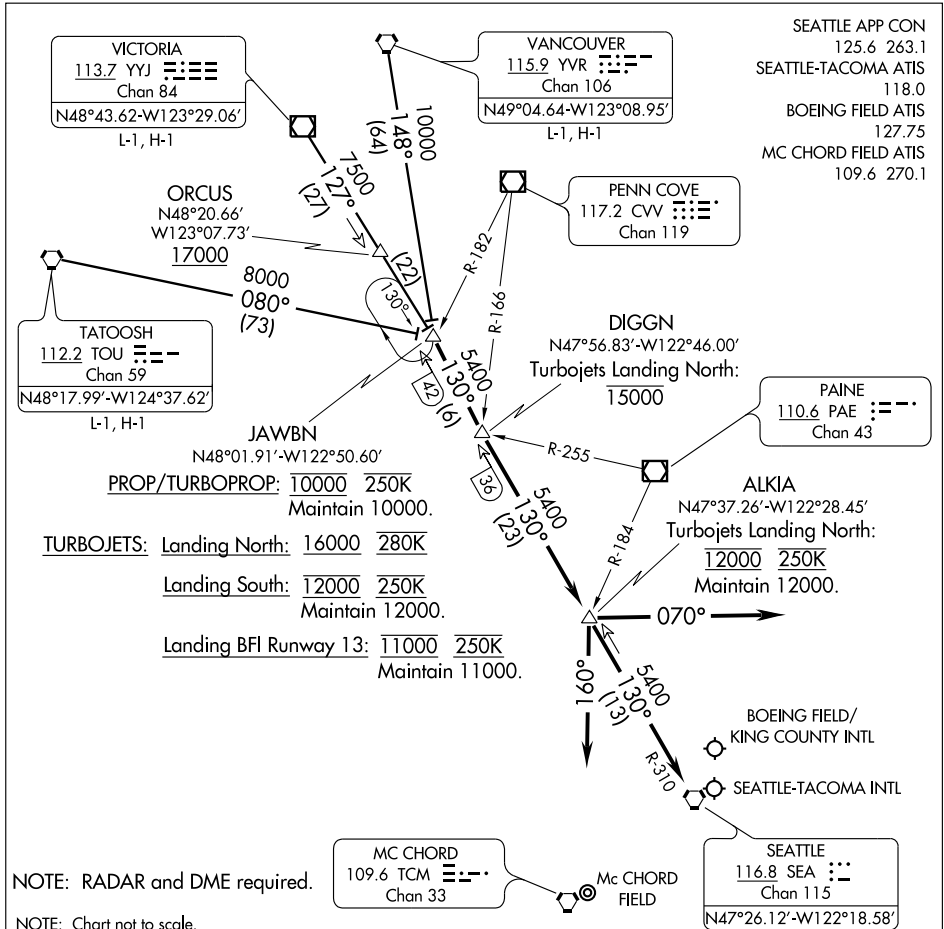


TACOMA, WASHINGTON

47°08'N-122°29'W

MC CHORD FIELD (KTCM)

NW-1, 03 JUN 2010 to 01 JUL 2010



TATOOSH TRANSITION (TOU.JAWBN1): From over TOU VORTAC via TOU R-080 to JAWBN INT. Thence....

VANCOUVER TRANSITION (YVR.JAWBN1): From over YVR VORTAC via YVR R-148 to JAWBN INT. Thence....

VICTORIA TRANSITION (YYJ.JAWBN1): From over YYJ VOR/DME via YYJ R-127 to JAWBN INT. Thence....

....From over JAWBN INT/SEA 42 DME via SEA R-310 to DIGGN/SEA 36 DME then via SEA R-310 to ALKIA INT/SEA 13 DME, thence....

LANDING NORTH: Depart ALKIA INT heading 160° for vectors to final approach course.

LANDING SOUTH: Depart ALKIA INT heading 070° for vectors to final approach course.

LANDING McCHORD FIELD: After ALKIA INT proceed direct SEA VORTAC.

LOST COMMUNICATIONS: After ALKIA INT proceed direct SEA VORTAC.

OLYMPIC-THREE DEPARTURE

SL-414 [USAF]

MC CHORD FIELD (RTOM)
TACOMA, WASHINGTON

ATIS
109.6 270.1
GND CON
118.175 279.65
MC CHORD TOWER
124.8 259.3
SEATTLE DEP CON
126.5 377.15

If unable to make published
climb gradient advise ATC
prior to departure.

Rwy	Knots	60	120	180	240
16 (A) V/V(fpm)		320	640	960	1280
34 (B) V/V(fpm)		650	1300	1950	2600

ATC Climb Rate

(A) To 10 DME

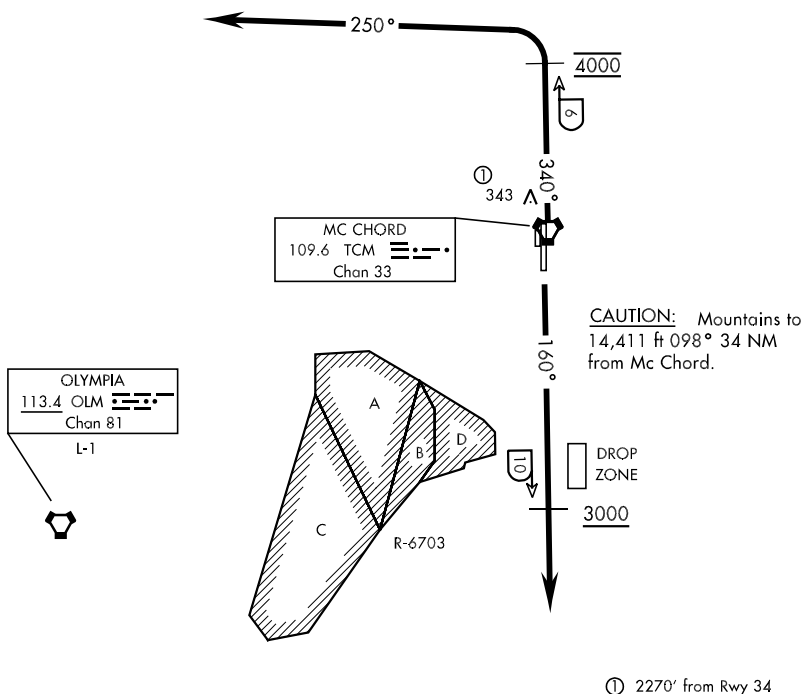
(B) To 6 DME

RADAR REQUIRED

Maximum 250 KIAS

SEATTLE
116.8 SEA
Chan 115

L-1



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 16: Climb on a track of 160°. Cross TCM VORTAC 10 DME at or above 3000. Maintain (assigned altitude). Expect radar vectors within TCM 8 DME after departure.

TAKE-OFF RWY 34: Climb on a track of 340° to TCM VORTAC 6 DME. Cross TCM 6 DME at 4000. Then turn left tracking 250°. Maintain (assigned altitude). Expect radar vectors.

PUGET-FIVE DEPARTURE

SL-414 [USAF]

MC CHORD FIELD (RTOM)
TACOMA, WASHINGTON

ATIS
109.6 270.1
GND CON
118.175 279.65
MC CHORD TOWER
124.8 259.3
SEATTLE DEP CON
126.5 377.15

If unable to make published
climb gradient advise ATC
prior to departure.

Rwy	Knots	60	120	180	240
16	⊙ V/V(fpm)	320	640	960	1280

ATC Climb Rate

⊙ To 10 DME

RADAR REQUIRED

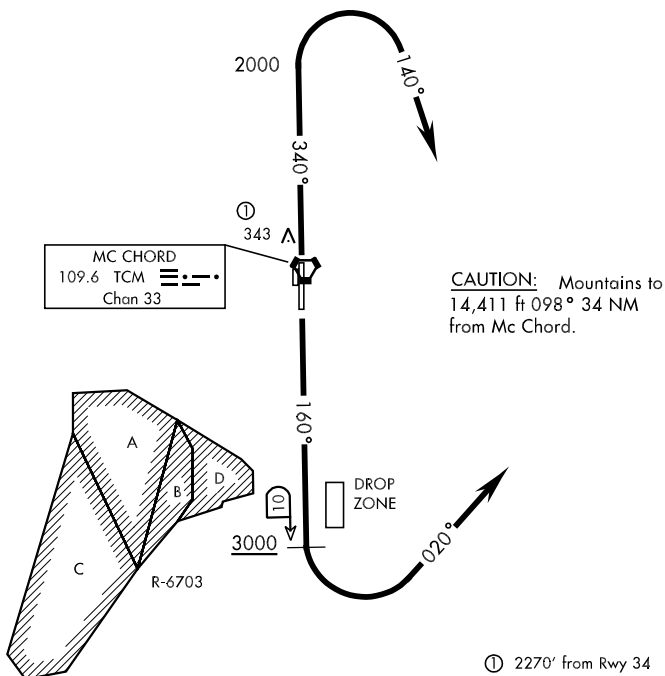
Maximum 250 KIAS

Radar vectors required within 10 NM after departure



SEATTLE
116.8 SEA
Chan 115

L-1



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RWY 16: Climb on a track of 160° to TCM VORTAC 10 DME, then turn left tracking 020°. Cross TCM 10 DME at or above 3000. Maintain (assigned altitude). Expect radar vectors.

TAKE-OFF RWY 34: Climb on a track of 340° to 2000. Then turn right, tracking 140°. Maintain (assigned altitude). Expect radar vectors.

VORTAC TCM 109.6 Chan 33	APCH CRS 153°	Rwy Idg 10,108 TDZE 286 Arprt Elev 322
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AL-414 [USAF]

MC CHORD FIELD (KTCM)

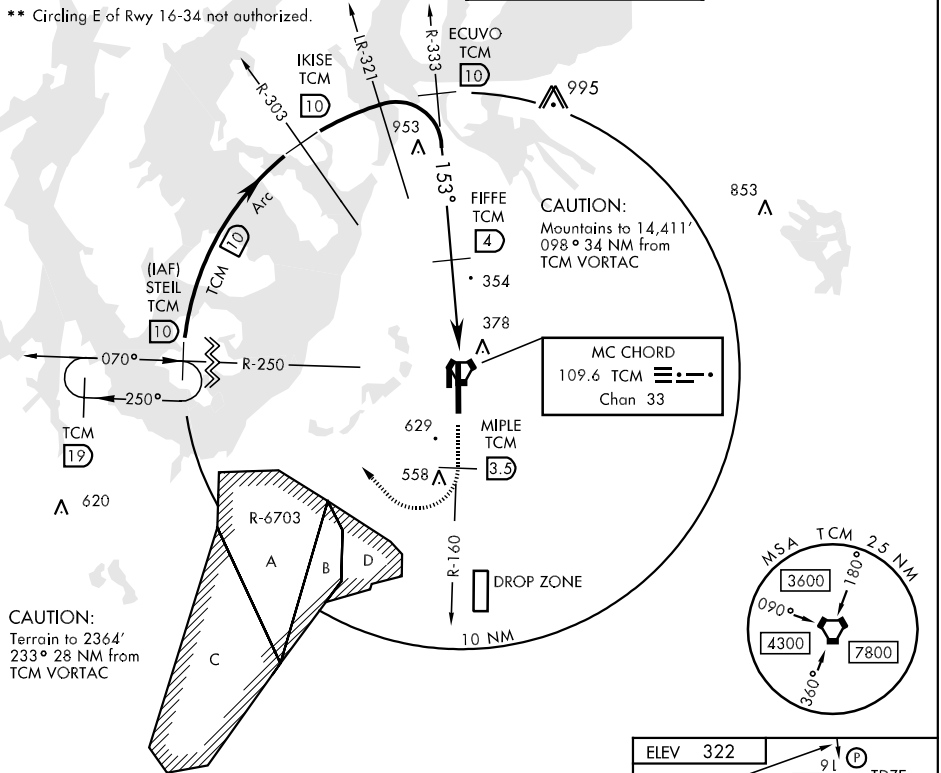
▼ * When ALS inop, increase CAT AB vis to 1 mile, RVR to 50, CAT C vis to 1½ miles, CAT DE vis to 1¾ miles.



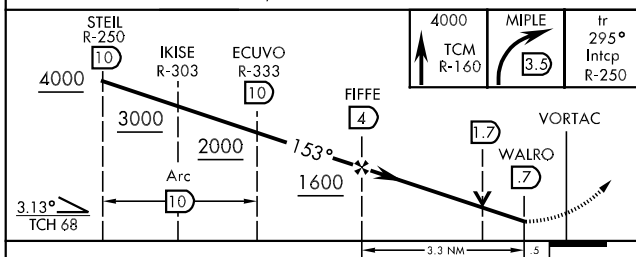
MISSED APPROACH: Climb to 4000 on TCM VORTAC R-160. At TCM 3.5 DME turn right via 295° course to intercept TCM R-250 to STEIL and hold, continue climb in hold to 4000.

ATIS 109.6 270.1	SEATTLE APP CON 126.5 377.15	MC CHORD TOWER 124.8 259.3	GND CON 118.175 279.65
---------------------	---------------------------------	-------------------------------	---------------------------

** Circling E of Rwy 16-34 not authorized.



EMERG SAFE ALT 100 NM 16,600



CATEGORY	A	B	C	D	E
S-16 *	800/40	514 (500-¾)	800/50 514 (500-1)	800/60	514 (500-1½)
CIRCLING **	940-1	618 (700-1)	940-1¾ 618(700-1¾)	940-2 618 (700-2)	940-2 ¼ 618(700-2 ¼)

ELEV 322	TDZE 286
153° 3.8 NM from FAF	91°
ASSAULT STRIP	162° or 1000C
461	342°
TDZL/CL Rwy 34	34
HIRL Rwy 16-34	
FAF to MAP 3.3 NM	
Knots	60 90 120 150 180
Min:Sec	3:18 2:12 1:39 1:19 1:06

VORTAC TCM 109.6 Chan 33	APCH CRS 338°	Rwy Idg 10,108 TDZE 322 Arpt Elev 322
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AL-414 [USAF]

MC CHORD FIELD (KTCM)

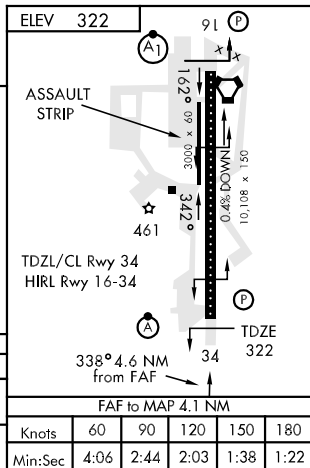
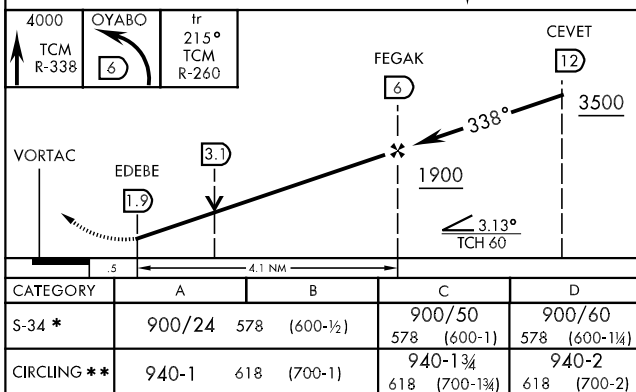
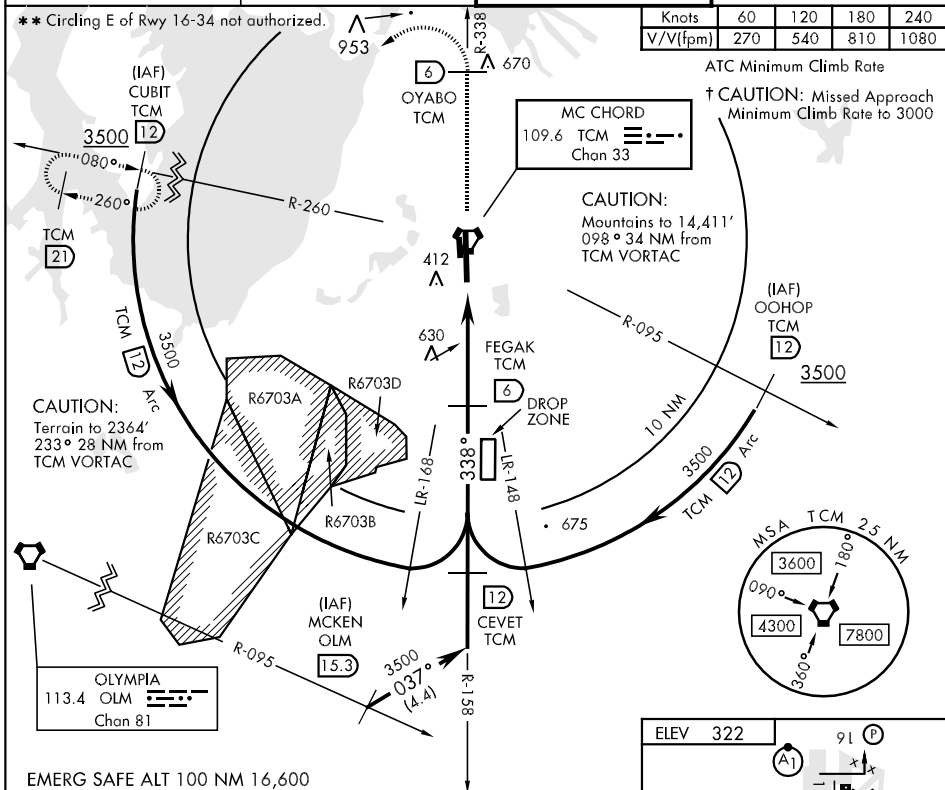
▼ * When ALS inop, increase CAT AB vis to 1 mile, RVR to 50, CAT C vis to 1½ miles, CAT D vis to 1¾ miles.



† MISSED APPROACH: Climb to 4000 on TCM VORTAC R-338 to 6 DME. Cross TCM 6 DME at or above 3000, then turn left via 215° course to intercept TCM R-260 to CUBIT and hold. Continue climb in hold to 4000.

ATIS 109.6 270.1	SEATTLE APP CON 126.5 377.15	MC CHORD TOWER 124.8 259.3	GND CON 118.175 279.65
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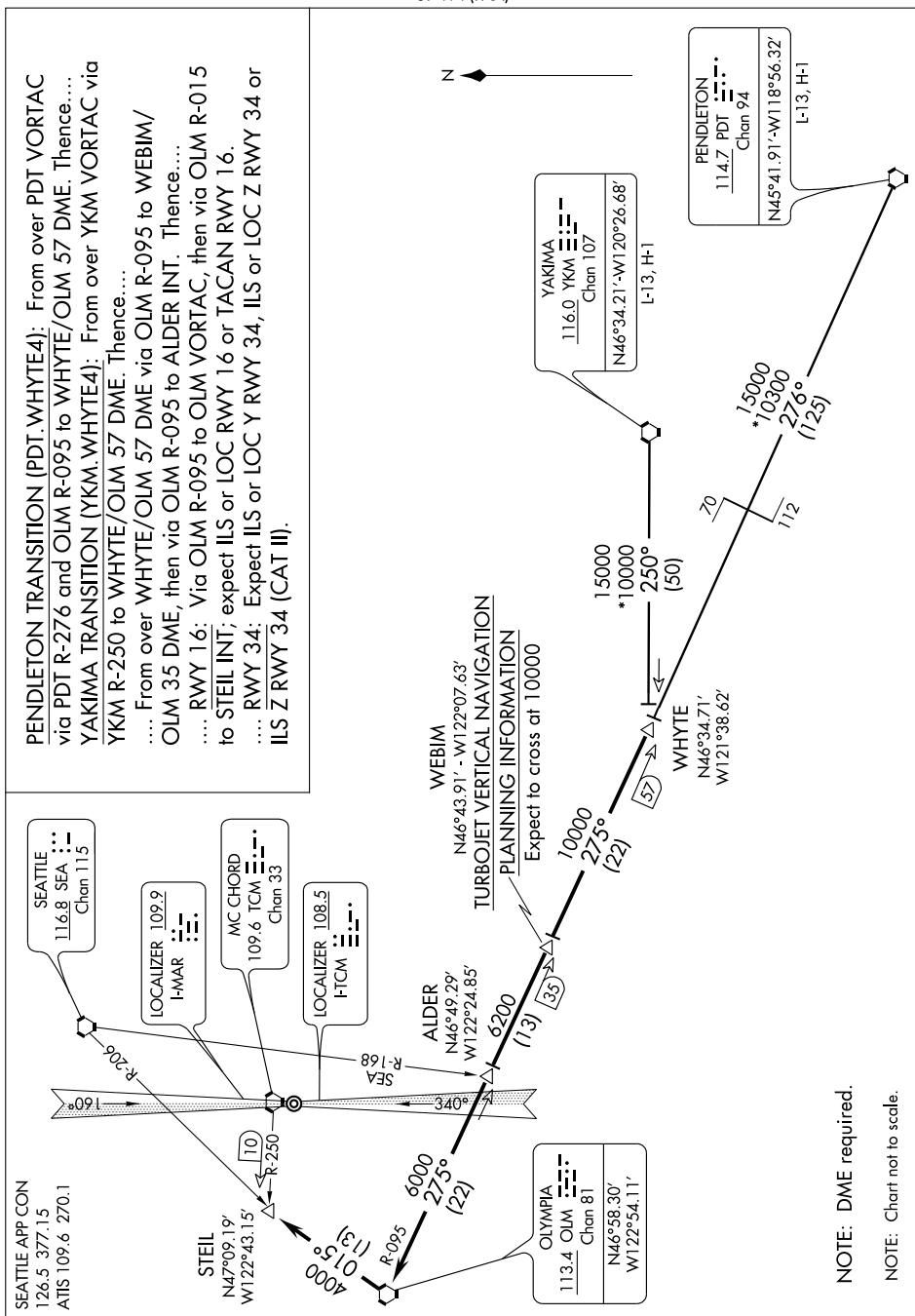
** Circling E of Rwy 16-34 not authorized.



WHYTE FOUR ARRIVAL

ST-414 (FAA)

McCHORD FIELD
TACOMA, WASHINGTON

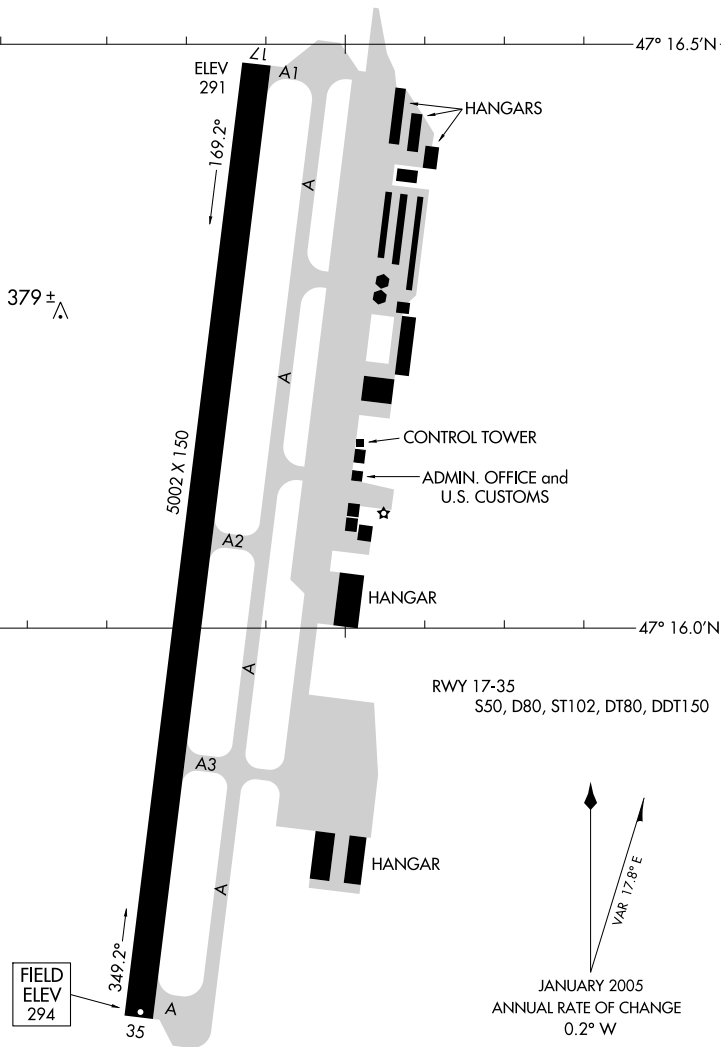


AIRPORT DIAGRAM

AL-5186 (FAA)

TACOMA NARROWS (TIW)
TACOMA, WASHINGTON

ATIS 124.05
TACOMA TOWER★
118.5 253.5
GND CON
121.8



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

122° 35'W

122° 34'W

NW-1, 03 JUN 2010 to 01 JUL 2010

LOC I-TIW	APP CRS	Rwy Idg	5002
109.1	167°	TDZE	292
		Apt Elev	292

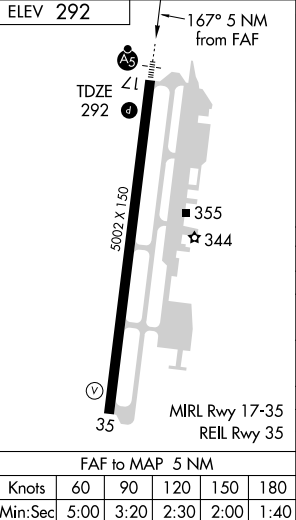
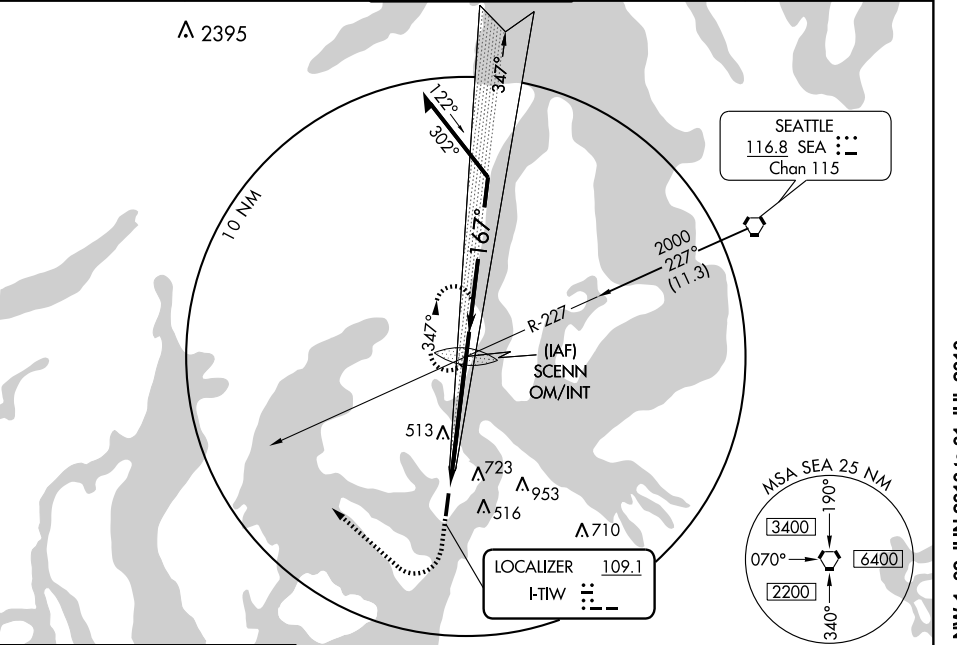
When control tower closed, obtain local altimeter setting on UNICOM, when not received, use McCord Field altimeter setting minimums.

Circling not authorized East of Rwy 17-35.

MALSR

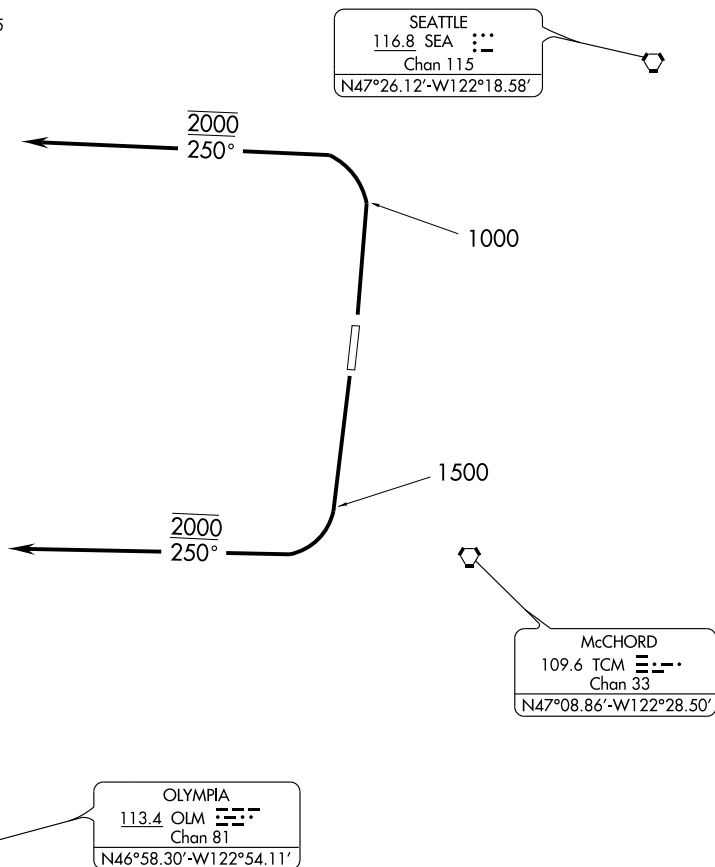
MISSED APPROACH: Climb to 1500, then climbing right turn to 2000 via heading 290° and SEA VORTAC R-227 to SCENN INT and hold.

ATIS 124.05	SEATTLE APP CON 120.1 290.9	TACOMA TOWER ★ 118.5 (CTAF) 253.5	GND CON 121.8	UNICOM 122.95
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ELEV 292	1500	2000	SEA R-227	SCENN INT	SCENN OM/INT	Remain within 10 NM
167° 5 NM from FAF	hdg 290°					
TDZE 292						
355						
344						
5002 x 150						
35						
MRL Rwy 17-35						
REIL Rwy 35						
FAF to MAP 5 NM						
Knots	60	90	120	150	180	
Min:Sec	5:00	3:20	2:30	2:00	1:40	
CATEGORY	A	B	C	D		
S-ILS 17		492-½	200 (200-½)			
S-LOC 17	760-½	468 (500-½)	760-¾ 468 (500-¾)	760-1 468 (500-1)		
CIRCLING	760-1	468 (500-1)	760-1½ 468 (500-1½)	860-2 568 (600-2)		
McCORD FIELD ALTIMETER SETTING MINIMUMS						
S-ILS 17		517-½	225 (300-½)			
S-LOC 17	780-½	488 (500-½)	780-¾ 488 (500-¾)	780-1 488 (500-1)		
CIRCLING	780-1	488 (500-1)	780-1½ 488 (500-1½)	860-2 568 (600-2)		

ATIS 124.05
GND CON 121.8
TACOMA TOWER
118.5 (CTAF) 253.5
SEATTLE DEP CON
120.1 290.9



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 17: Climb runway heading until leaving 1500, turn right heading 250°, maintain 2000. Expect filed altitude 5 minutes after departure. Expect radar vectors to assigned route

TAKE-OFF RUNWAY 35: Climb runway heading until leaving 1000, turn left heading 250°, maintain 2000. Expect filed altitude 5 minutes after departure. Expect radar vectors to assigned route.

LOST COMMUNICATIONS: If no transmissions are received for 3 minutes after departure, climb to filed altitude direct SEA VORTAC, thence via assigned route.

NDB GRF 216	APP CRS 349°	Rwy Idg TDZE Apt Elev 5002 292 292
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NDB RWY 35

TACOMA NARROWS (TIW)

▼ When control tower closed, obtain local altimeter setting on UNICOM; when not received, use McChord Field altimeter setting.
▲ Circling NA east of Rwy 17-35.

MISSED APPROACH: Climb to 1000, then climbing left turn to 2000 direct GRF NDB and hold.

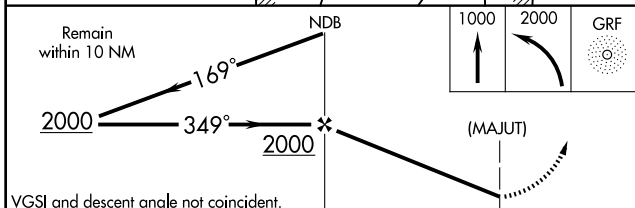
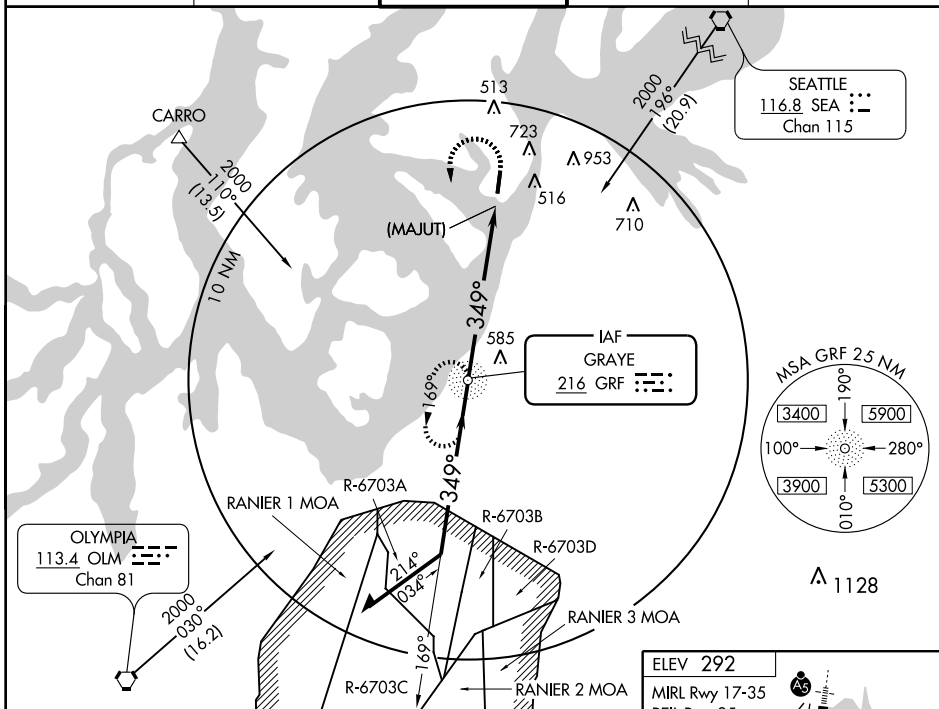
ATIS
124.05

SEATTLE APP CON
120.1 290.9

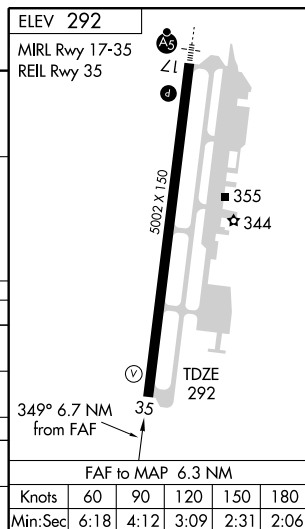
TACOMA TOWER★
118.5 (CTAF) 0 253.5

GND CON
121.8

UNICOM
122.95



CATEGORY	A	B	C	D
S-35	1000-1 708 (800-1)		1000-2 708 (800-2)	1000-2 708 (800-2 1/4)
CIRCLING	1000-1 708 (800-1)		1000-2 708 (800-2)	1000-2 708 (800-2 1/4)
McCHORD FIELD ALTIMETER SETTING MINIMUMS				
S-35	1020-1 728 (800-1)		1020-2 728 (800-2)	1020-2 728 (800-2 1/4)
CIRCLING	1020-1 728 (800-1)		1020-2 728 (800-2)	1020-2 728 (800-2 1/4)



Knots	60	90	120	150	180
Min:Sec	6:18	4:12	3:09	2:31	2:06

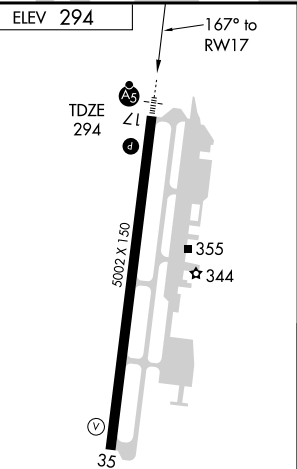
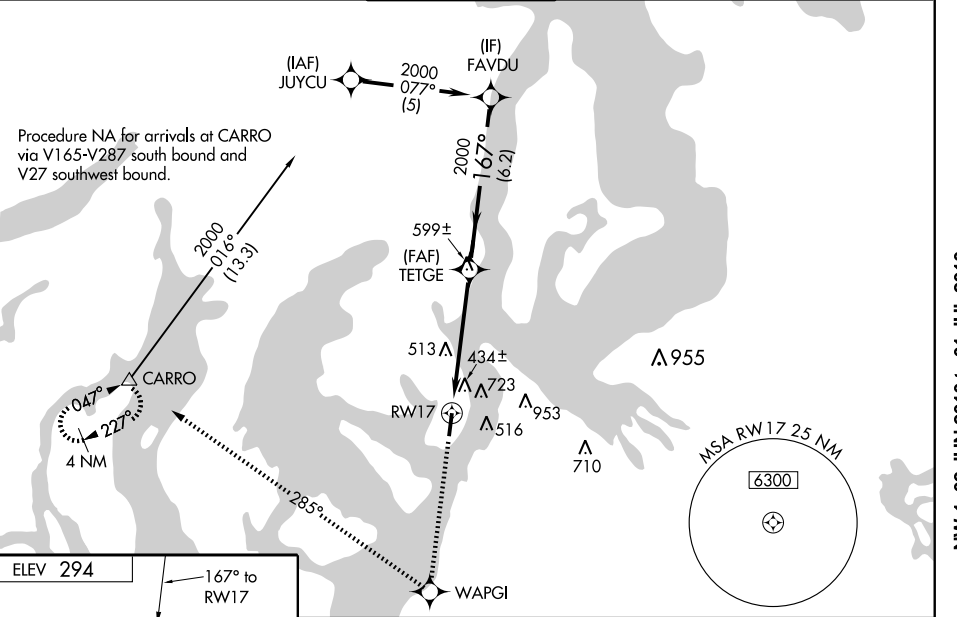
WAAS	APP CRS	Rwy Idg	5002
CH 82608	167°	TDZE	294
W17A		Apt Elev	294

⚠ Inoperative table does not apply to LNAV Cats A and B.
⚠ Circling NA east of Rwy 17/35.
⚠ Baro-VNAV NA when using McChord Field altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°F (5°F) or above 48°C (118°F).
DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use McChord Field altimeter setting and increase all DA/MDA 40 feet.

MALSR

MISSED APPROACH: Climb to 4000 direct WAPGI and right turn via 285° track to CARRO and hold, continue climb-in-hold to 4000.

ATIS	SEATTLE APP CON	TACOMA TOWER ★	GND CON	UNICOM
124.05	120.1 290.9	118.5 (CTAF) 0 253.5	121.8	122.95



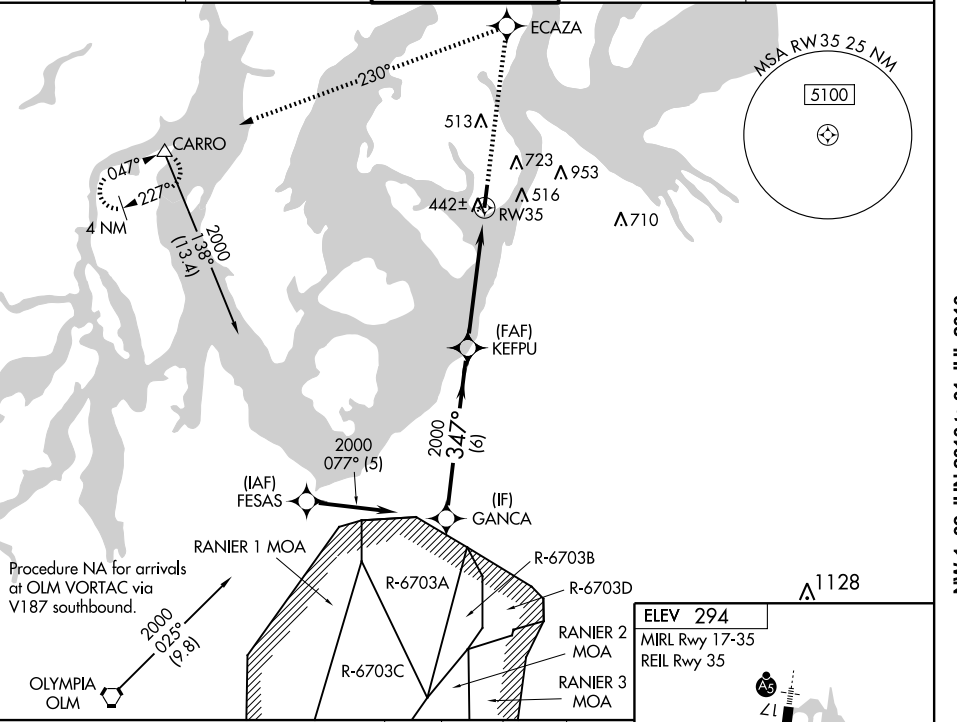
MIRL Rwy 17-35
REIL Rwy 35

4000	WAPGI	285° tr	CARRO	TETGE	FAVDU	Procedure Turn NA
RW17		167°		2000		
5.1 NM		6.2 NM		GS 3.00° TCH 52		
CATEGORY	A	B	C	D		
LPV DA	638-1 344 (400-1)					
LNAV/VNAV DA	992-2 698 (700-2)					
LNAV MDA	980-1	686 (700-1)	980-1½ 686 (700-1½)	980-1¾ 686 (700-1¾)		
CIRCLING	980-1	686 (700-1)	980-2 686 (700-2)	980-2¼ 686 (700-2¼)		

Baro-VNAV NA when using McChord Field altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -15°C (5°F) or above 48°C (118°F). DME/DME RNP-0.3 NA.
Visibility reduction by helicopters NA. Circling NA east of Rwy 17-35.
When local altimeter setting not received, use McChord Field altimeter setting and increase all DA 25 feet and all MDA 40 feet.

MISSED APPROACH: Climb to 4000 direct ECAZA and left turn via 230° track to CARRO and hold, continue climb-in-hold to 4000.

ATIS 124.05	SEATTLE APP CON 120.1 290.9	TACOMA TOWER ★ 118.5 (CTAF) 0 253.5	GND CON 121.8	UNICOM 122.95
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Procedure Turn NA

2000 → 347° → 2000

GS 3.00° TCH 51

6 NM

5.1 NM

RW35

CATEGORY	A	B	C	D
LPV DA	560-1 266 (300-1)			
LNAV/VNAV DA	768-1¾ 474 (500-1¾)			
LNAV MDA	840-1 546 (600-1)	840-1½ 546 (600-1½)	840-1¾ 546 (600-1¾)	
CIRCLING	980-1 686 (700-1)	980-2 686 (700-2)	980-2¼ 686 (700-2¼)	

ELEV 294

MIRL Rwy 17-35

REIL Rwy 35

5002 x 150

355

344

TDZE 294

35

347° to RW35

NW-1. 03 JUN 2010 to 01 JUL 2010

LOC/DME I-VDG 111.3 Chan 50	APP CRS 099°	Rwy Idg TDZE Apt Elev	N/A N/A 25
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LDA-A
VANCOUVER/PEARSON FIELD (VUO)

T
A NA Use Portland Intl altimeter setting.

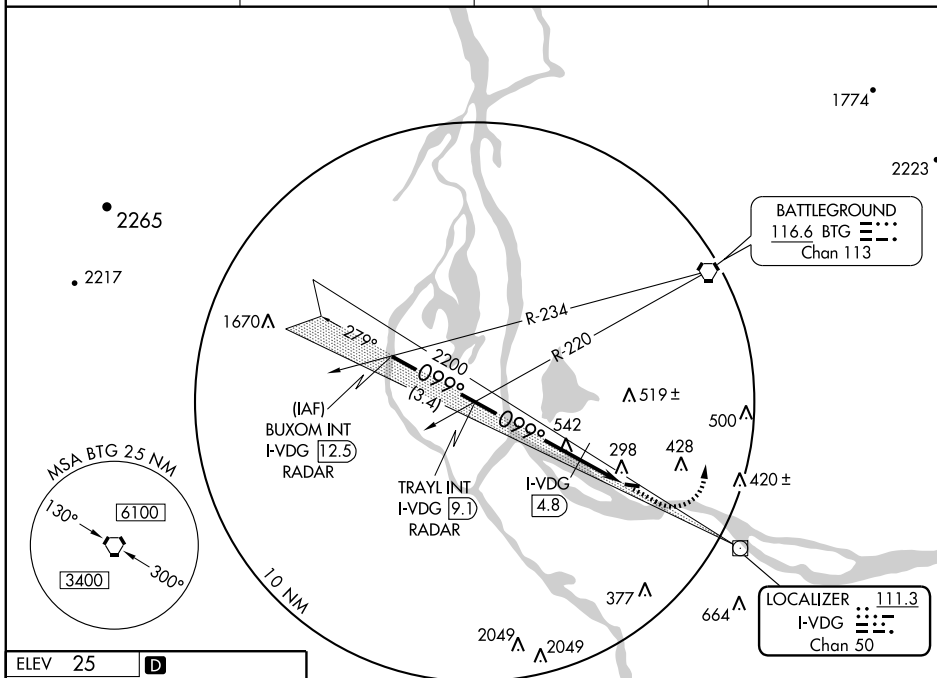
MISSED APPROACH: Climb to 900 then climbing left turn to 4000 direct to BTG VORTAC.

ASOS
135.125

PORTLAND APP CON
124.35 299.2

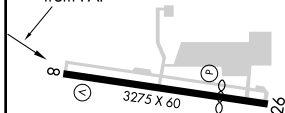
CLNC DEL
121.65

UNICOM
123.0 (CTAF) **L**



ELEV	25	D
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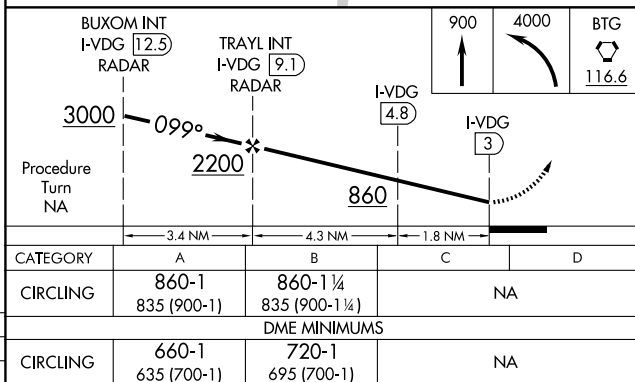
099° 6.1 NM
from FAF

REIL Rwy 8 and 26
MIRL Rwy 8-26 1

FAF to MAP 6.1 NM

Knots	60	90	120	150	180
Min:Sec	6:06	4:04	3:03	2:26	2:02

RADAR REQUIRED



AIRPORT DIAGRAM

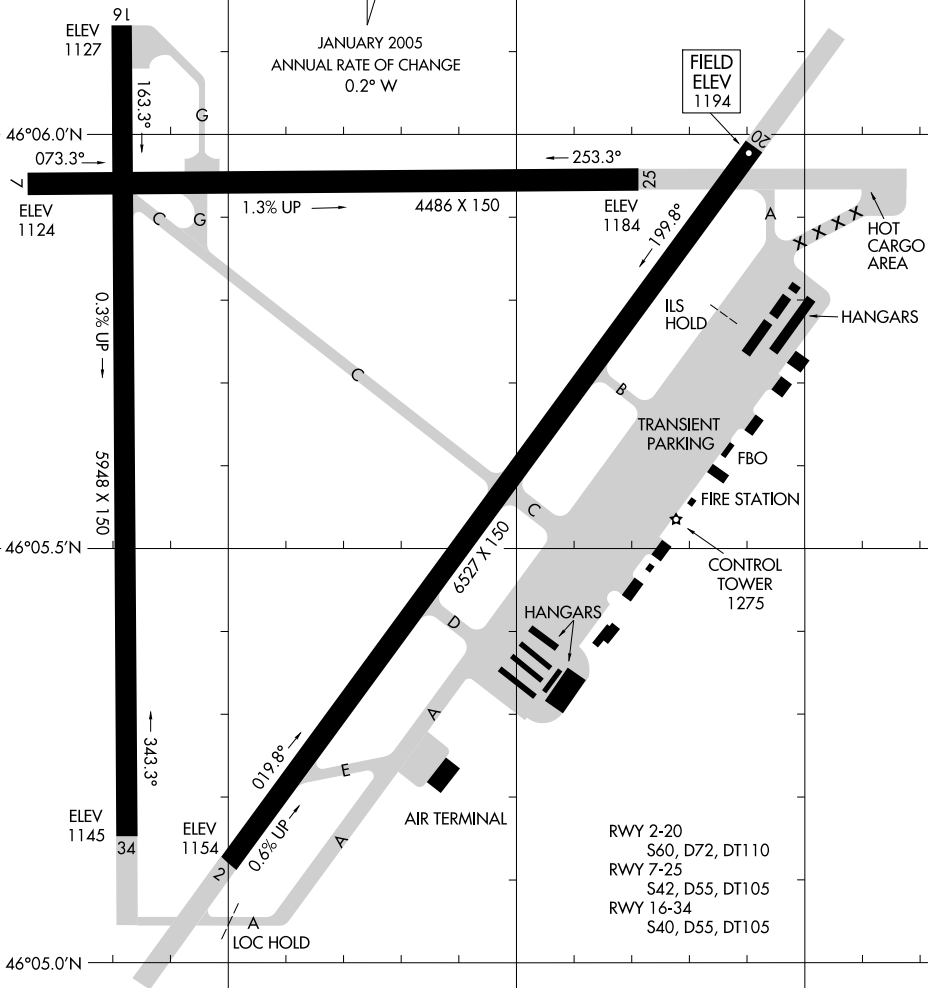
AL-440 (FAA)

WALLA WALLA RGNL (ALW)
WALLA WALLA, WASHINGTON

ASOS
135.875
WALLA WALLA TOWER ★
118.5 289.4
GND CON
121.6 289.4

JANUARY 2005
ANNUAL RATE OF CHANGE
0.2° W

FIELD
ELEV
1194



CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS IS REQUIRED.

NW-1, 03 JUN 2010 to 01 JUL 2010



118°17.5'W

118°17.0'W

118°16.5'W

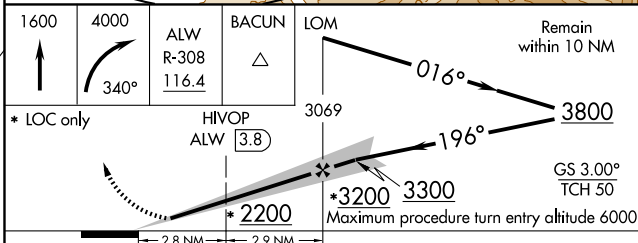
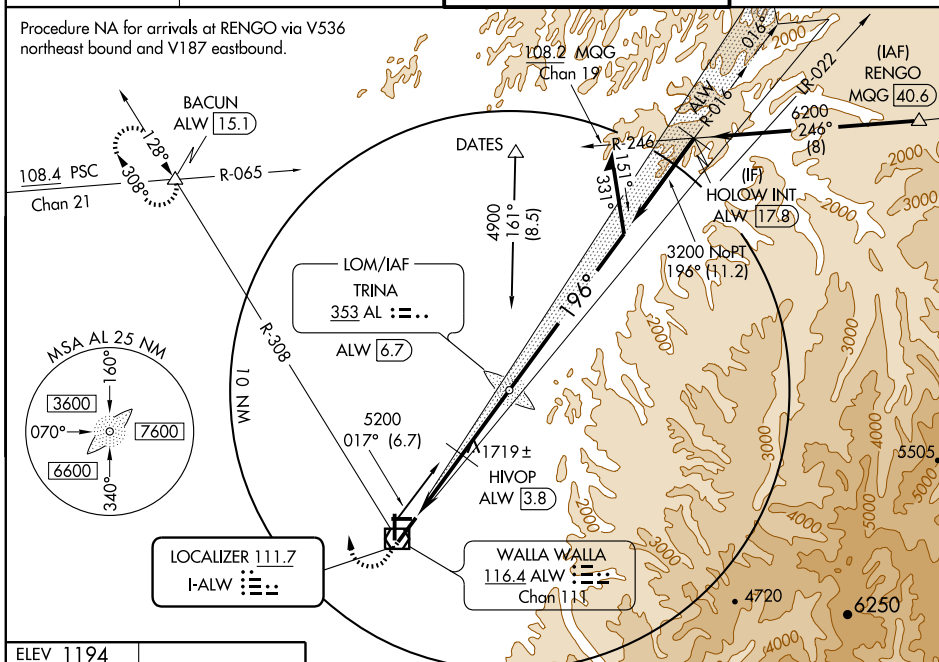
LOC I-ALW <u>111.7</u>	APP CRS 196°	Rwy Idg TDZE Apt Elev	6527 1194 1194
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ILS or LOC RWY 20
WALLA WALLA RGNL (ALW)

 <p># RVR 1800 authorized with the use of FD or AP or HUD to DA.</p>	<p>MALSR</p> 	<p>MISSED APPROACH: Climb to 1600 then climbing right turn to 4000 heading 340° and ALW R-308 to BACUN INT/ALW 15.1 DME and hold.</p>
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ASOS 135.875	CHINOOK APP CON ★ 133.15 379.15	WALLA WALLA TOWER ★ 118.5 (CTAF) 0 289.4	GND CON 121.6 289.4
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Procedure NA for arrivals at RENG0 via V536
northeast bound and V187 eastbound.



CATEGORY	A	B	C	D
S-ILS 20	#1394/24		200 (200-½)	
S-LOC 20	2200/40 1006 (1100-¾)	2200/50 1006 (1100-1)	2200-2½ 1006 (1100-2½)	
CIRCLING	2200-1¼ 1006 (1100-1¼)	2200-1½ 1006 (1100-1½)	2200-3 1006 (1100-3)	
DME MINIMUMS				
S-LOC 20	1980/24 786 (800-½)	1980/40 786 (800-¾)	1980-1¾ 786 (800-1¾)	1980-2 786 (800-2)
CIRCLING	1980-1 786 (800-1)	1980-1¼ 786 (800-1¼)	1980-2¼ 786 (800-2¼)	1980-2½ 786 (800-2½)

NDB RWY 20

WALLA WALLA RGNL (ALW)

LOM AL	APP CRS	Rwy Idg	6527
353	196°	TDZE	1194
		Apt Elev	1194

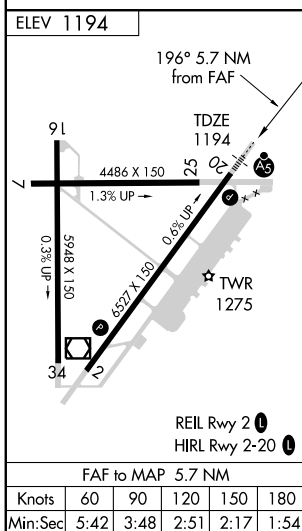
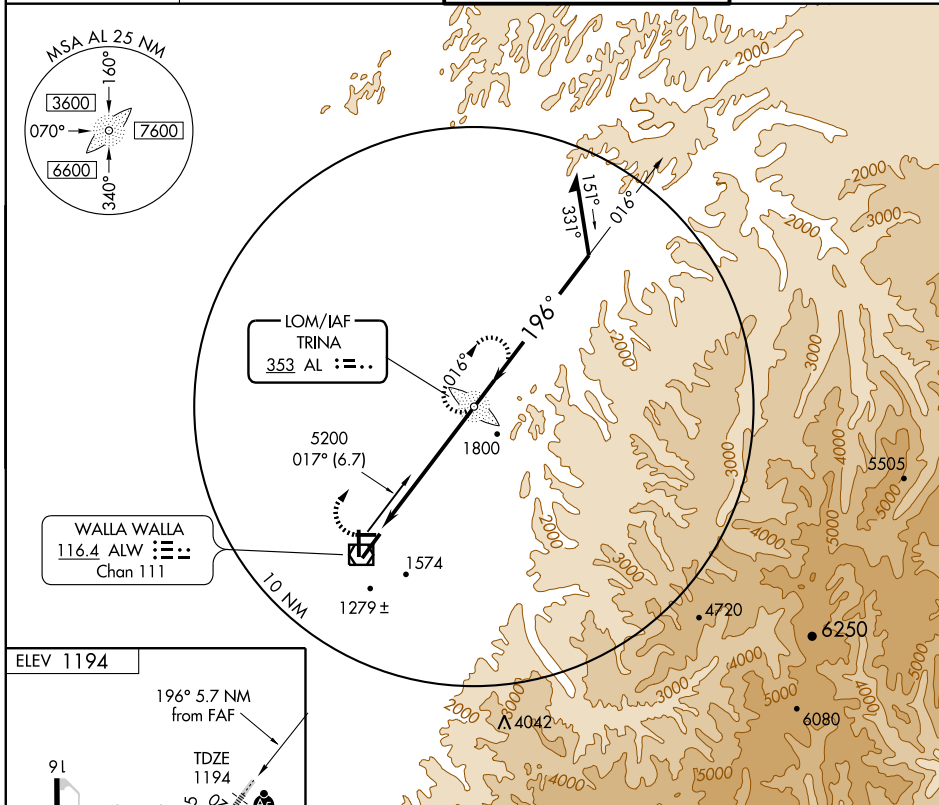
Caution: Cat. A and B S-20 visibility increased
½ mile for inoperative ALSF-1.

MALSR



MISSED APPROACH: Climbing right turn
to 3700 direct TRINA LOM and hold.

ASOS 135.875	CHINOOK APP CON ★ 133.15 379.15	WALLA WALLA TOWER ★ 118.5 (CTAF) 289.4	GND CON 121.6 289.4
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				<p>Remain within 10 NM</p>	
		<p>016°</p>		<p>3800</p>	
<p>196°</p>		<p>3200</p>		<p>Maximum procedure turn entry altitude 6000.</p>	
<p>5.7 NM</p>					
CATEGORY	A	B	C	D	
S-20	2200/40 1006 (1100-¾)	2200/50 1006 (1100-1)	2200-2½ 1006 (1100-2½)	2200-2¾ 1006 (1100-2¾)	
CIRCLING	2200-1¼ 1006 (1100-1¼)	2200-1½ 1006 (1100-1½)	2200-3	1006 (1100-3)	

WAAS CH 72805 W02A	APP CRS 016°	Rwy Idg TDZE 1173 Apt Elev 1194	6527
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▼

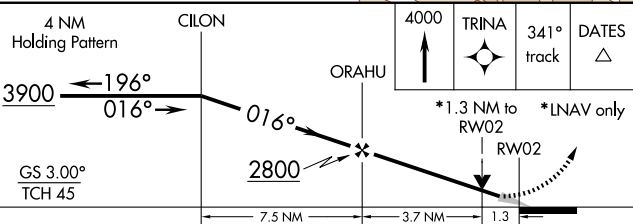
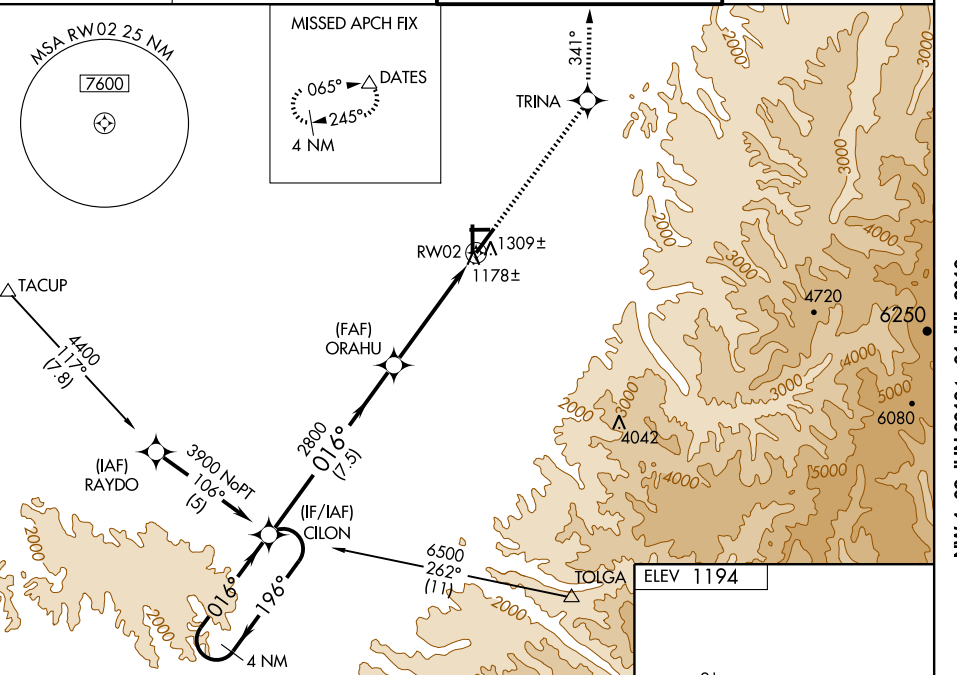
DME/DME RNP- 0.3 NA.

▲

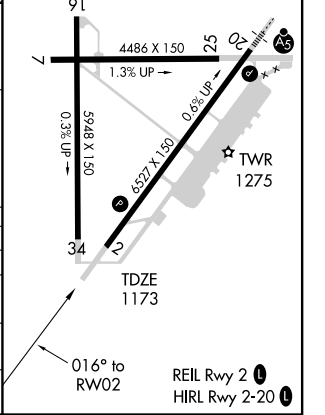
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -17°C (2°F) or above 46°C (114°F).
When local altimeter setting not received, use Pendleton altimeter setting and increase all DAs/MDAs 120 feet and LPV visibilities ¼ mile, LNAV/VNAV visibilities ½ mile, LNAV Cats. C/D visibility ¼ mile, and Circling Cat. C/D visibility ½ mile.
VDP and Baro-VNAV NA when using Pendleton altimeter setting.

MISSED APPROACH: Climb to 4000 direct TRINA and via 341° track to DATES and hold.

ASOS 135.875	CHINOOK APP CON ★ 133.15 379.15	WALLA WALLA TOWER ★ 118.5 (CTAF) 0 289.4	GND CON 121.6 289.4
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CATEGORY	A	B	C	D
LPV DA	1423-1 250 (300-1)			
LNAV/VNAV DA	1612-1½ 439 (500-1½)			
LNAV MDA	1620-1 447 (500-1)	1620-1¼ 447 (500-1¼)	1620-1½ 447 (500-1½)	
CIRCLING	1760-1 566 (600-1)	1820-1¾ 626 (700-1¾)	1980-2½ 786 (800-2½)	



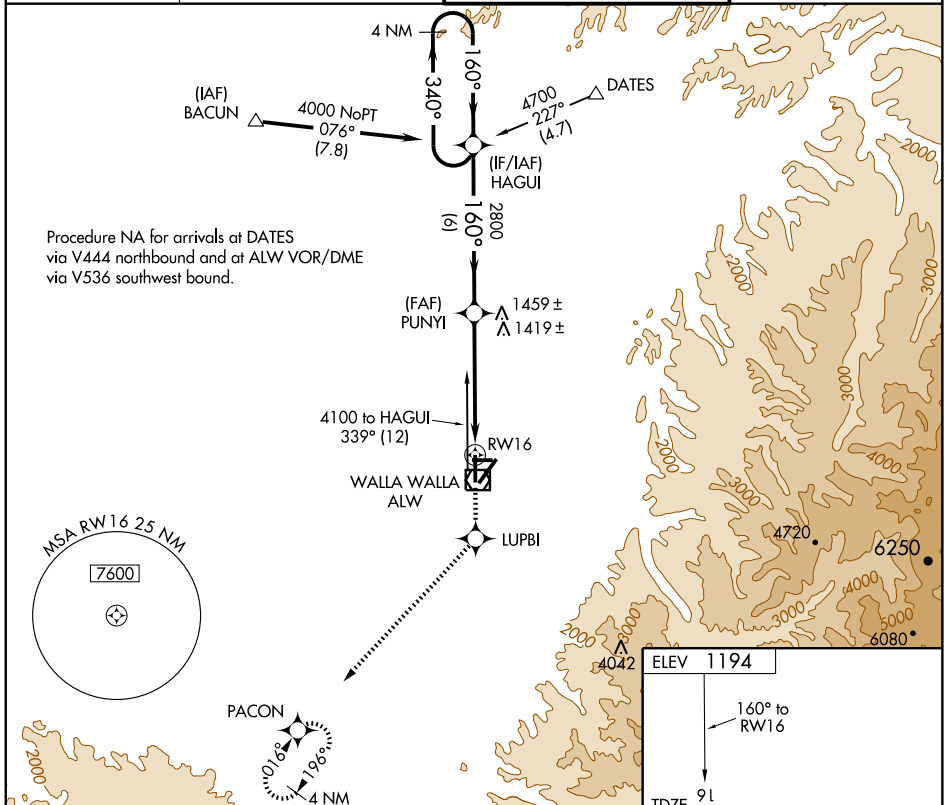
APP CRS	Rwy Idg	5948
160°	TDZE	1136
	Apt Elev	1194

RNAV (GPS) RWY 16

WALLA WALLA RGNL (ALW)

<p>▼ Straight-in/circling to Rwy 16 NA at night. DME/DME RNP-0.3 NA. Inoperative table does not apply.</p>	<p>MISSED APPROACH: Climb to 4000 direct LUPBI and via 203° track to PACON and hold.</p>
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ASOS 135.875	CHINOOK APP CON ★ 133.15 379.15	WALLA WALLA TOWER ★ 118.5 (CTAF) 0 289.4	GND CON 121.6 289.4
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<p>4 NM Holding Pattern</p> <p>HAGUI</p> <p>4000</p> <p>340°</p> <p>160°</p> <p>160°</p> <p>3.05°</p> <p>TCH 40</p> <p>2800</p> <p>6 NM</p> <p>5.1 NM</p> <p>PUNYI</p> <p>RW16</p> <p>LUPBI</p> <p>203° trk</p> <p>PACON</p> <p>4000</p> <p>160° to RW16</p> <p>TDZE 1136</p> <p>4486 X 150</p> <p>1.3% UP</p> <p>5948 X 150</p> <p>0.3% UP</p> <p>6577 X 150</p> <p>0.6% UP</p> <p>TWR 1275</p>				
CATEGORY	A	B	C	D
LNNAV MDA	1660-1	524 (600-1)	1660-1½ 524 (600-1½)	1660-1¾ 524 (600-1¾)
CIRCLING	1760-1	566 (600-1)	1820-1¾ 626 (700-1¾)	1980-2½ 786 (800-2½)

WAAS CH 90299 W20A	APP CRS 196°	Rwy Idg TDZE Apt Elev	6527 1194 1194
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RNAV (GPS) RWY 20

WALLA WALLA RGNL (ALW)

DME/DME RNP-0.3 NA.
Baro-VNAV NA below -17°C (2°F).
 For inoperative MALSR, increase LPV visibility all Cats to RVR 4000.



MISSED APPROACH: Climb to 4000 direct PACON and hold.

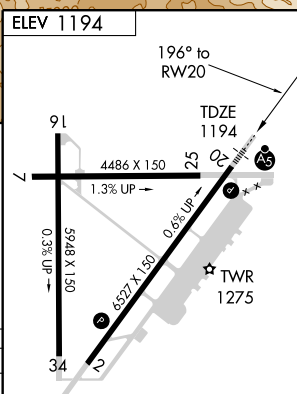
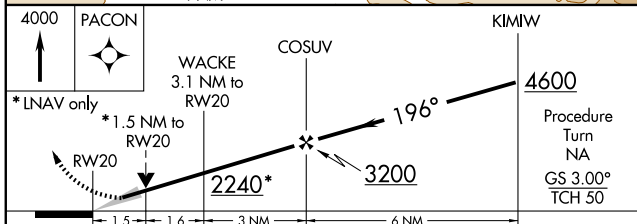
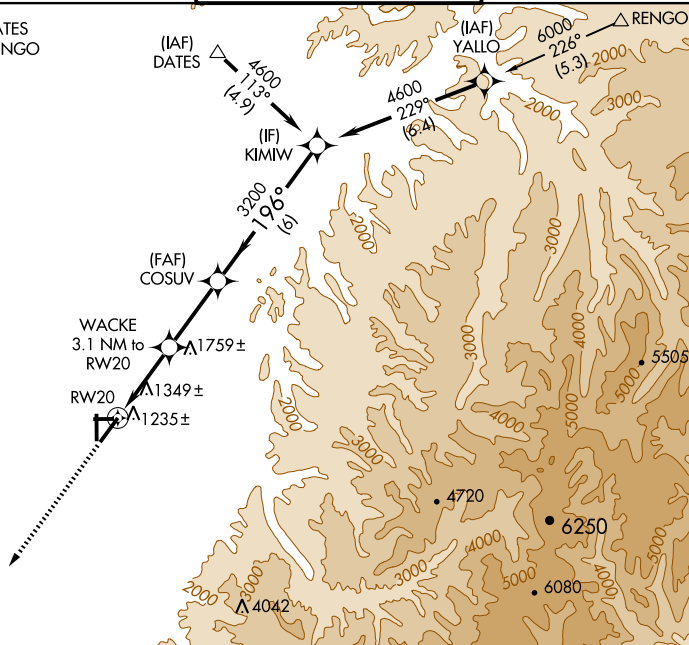
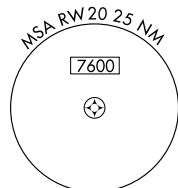
ASOS
135.875

CHINOOK APP CON ★
133.15 379.15

WALLA WALLA TOWER ★
118.5 (CTAF) 0 289.4

GND CON
121.6 289.4

Procedure NA for arrivals at DATES via V444 northbound and at RENG0 via V536 northeast bound.



CATEGORY	A	B	C	D
LPV DA	1444/24 250 (300-½)			
LNNAV/VNAV	1694/60 500 (500-1¼)			
LNNAV MDA	1720/24 526 (600-½)		1720/50 526 (600-1)	1720/60 526 (600-1¼)
CIRCLING	1760-1¼ 566 (600-1¼)		1820-1¼ 626 (700-1¼)	1980-2½ 786 (800-2½)

REIL Rwy 2 0
HIRL Rwy 2-20 0

VOR/DME ALW	APP CRS	Rwy Idg	5948
116.4	154°	TDZE	1136
Chan 111		Apt Elev	1194

VOR RWY 16

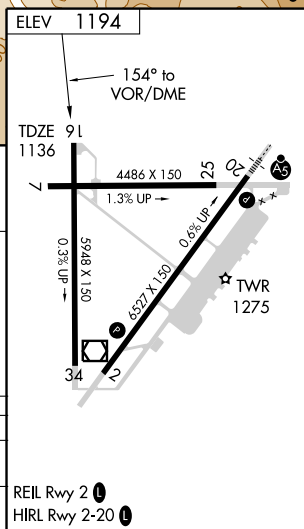
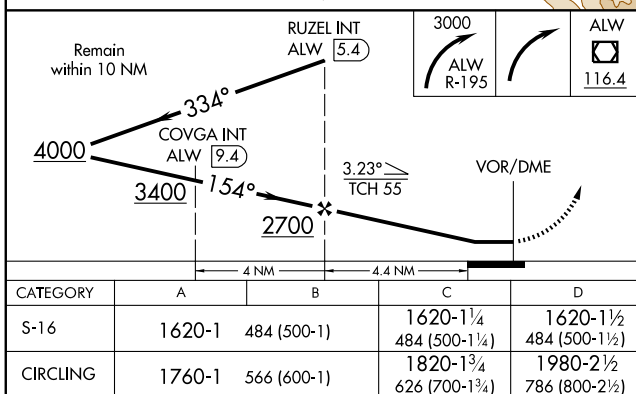
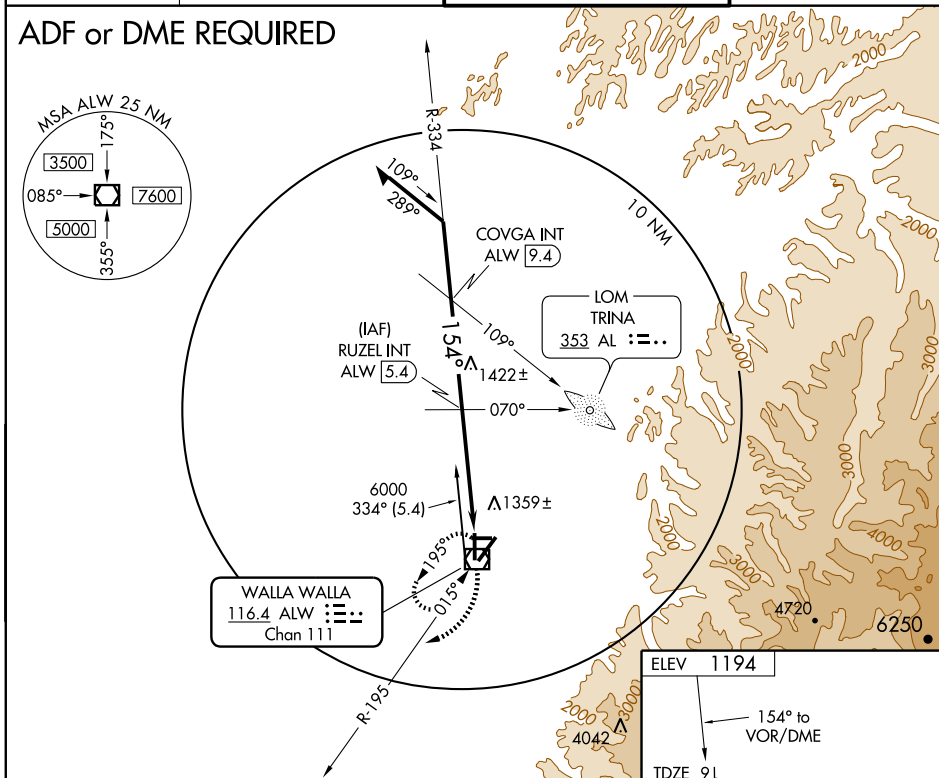
WALLA WALLA RGNL (ALW)

▼ Straight-in/circling to Rwy 16 NA at night.
▲ NA Inoperative table does not apply.

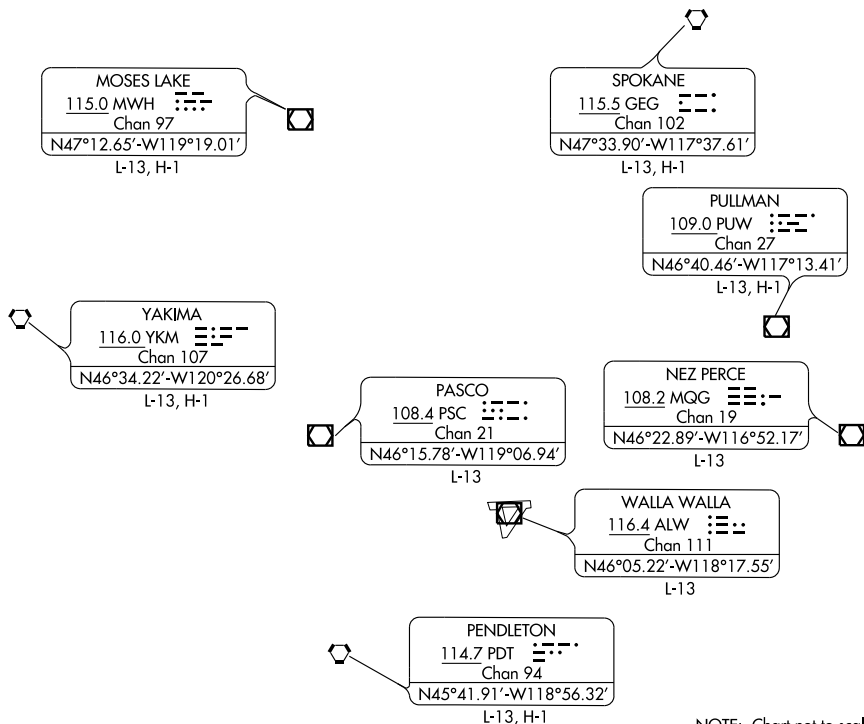
MISSED APPROACH: Climbing right turn to 3000 via ALW VOR/DME R-195 within 10 DME then right turn direct ALW VOR/DME and hold.

ASOS 135.875	CHINOOK APP CON ★ 133.15 379.15	WALLA WALLA TOWER ★ 118.5 (CTAF) 1 289.4	GND CON 121.6 289.4
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ADF or DME REQUIRED



WALLA WALLA GND CON
121.6 289.4
WALLA WALLA TOWER ★
118.5 (CTAF) 289.4
CHINOOK APP CON ★
133.15 379.15



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF ALL RUNWAYS: Climb via specified turn and heading for vector to assigned route.

LOST COMMUNICATIONS: If not in contact with Departure Control after reaching 2500' continue climb to assigned altitude and proceed direct to ALW VOR/DME, thence via assigned route.

Note: Air Traffic Control may assign turns and magnetic headings of 195° clockwise through 020° in the initial clearance.

LOC/DME I-ADJ	APP CRS	Rwy Idg	5700
109.35	116°	TDZE	1226
Chan 30(Y)		Apt Elev	1249

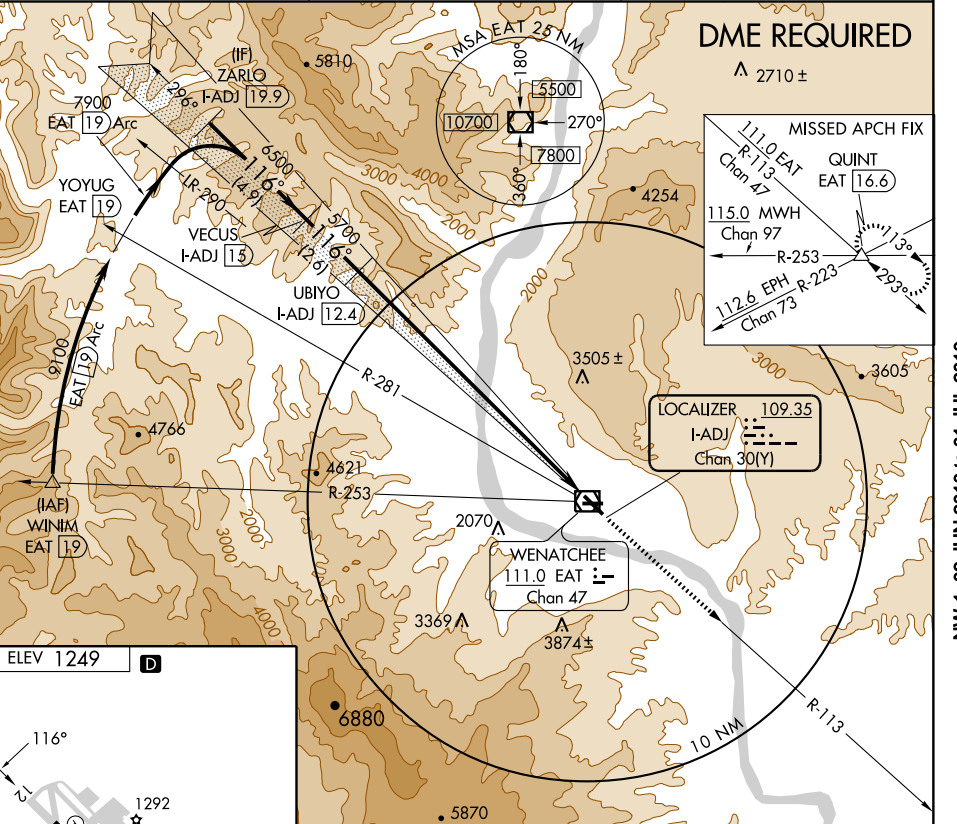
▼

▲

When VGSi inoperative, procedure NA at night.

MISSED APPROACH: Climb to 4000 direct EAT VOR/DME and via EAT R-113 to QUINT INT/EAT 16.6 DME and hold.

ASOS 119.925	SEATTLE CENTER 126.1 291.6	UNICOM 123.0 (CTAF) 0
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ELEV 1249 D

116°

1292

1276

5700 X 150

4460 X 75

25

1258±

30

1.0% UP

RAIL Rwy 30
REIL Rws 12 and 30 0
MIRL Rwy 12-30 0

CATEGORY	ZARLO I-ADJ 19.9		VECUS I-ADJ 15		UBIYO I-ADJ 12.4		4000	EAT	EAT	QUINT
							↑	111.0	R-113	111.0
							Use I-ADJ DME when on the localizer course. VGSi and ILS glidepath not coincident.			
							7900 116° 6500 5700			
		Procedure Turn NA		GS 3.60°		TCH 46				
		4.9 NM		2.6 NM		11.3 NM				
		A		B		C		D		
		S-ILS 12		2539-4 1313 (1300-4)				NA		
		CIRCLING				NA				

NW-1. 03 JUN 2010 to 01 JUL 2010

APP CRS **296°**
Rwy Idg **5700**
TDZE **1232**
Apt Elev **1249**

RNAV (RNP) RWY 30

WENATCHEE/ PANGBORN MEMORIAL (EAT)

RF and GPS required. When local altimeter setting not received, procedure NA. Procedure NA for aircraft with wingspan greater than 136 feet. For uncompensated Baro-VNAV systems, procedure NA below -17°C (2°F) or above 37°C (98°F).

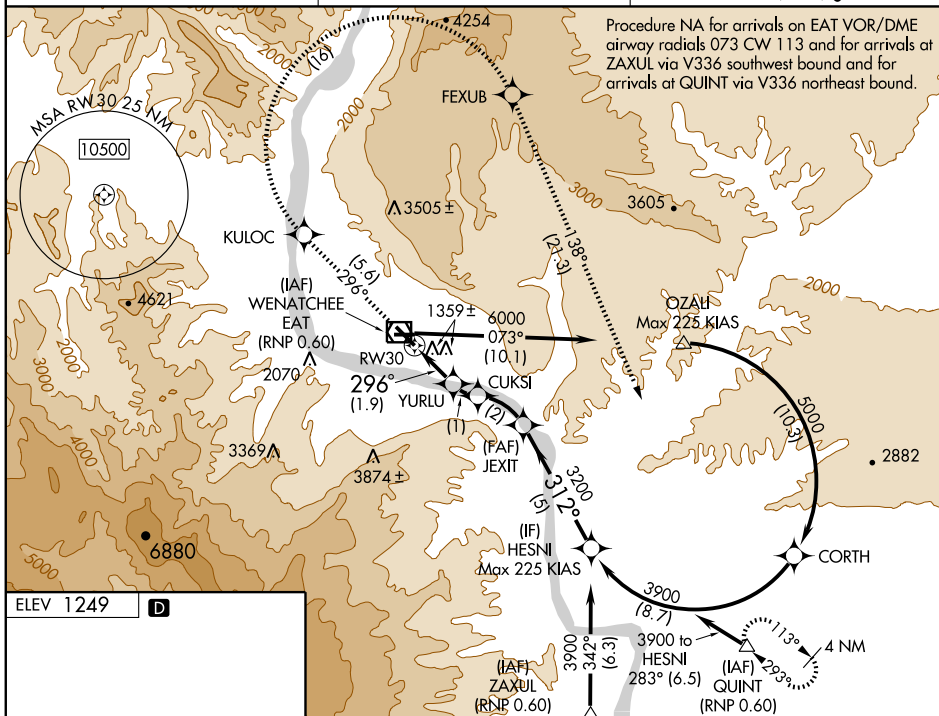
MISSED APPROACH: Climb to 6000 via track 296° to KULOC, and via right turn to FEXUB, and via track 138° to QUINT and hold.

- *Missed approach requires minimum climb of 390 feet per NM to 5700.
- **Missed approach requires minimum climb of 380 feet per NM to 5700.
- ***Missed approach requires minimum climb of 375 feet per NM to 5700.

ASOS
119.925

SEATTLE CENTER
126.1 291.6

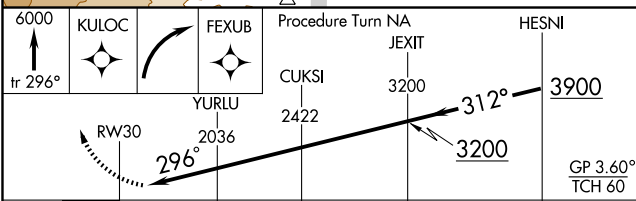
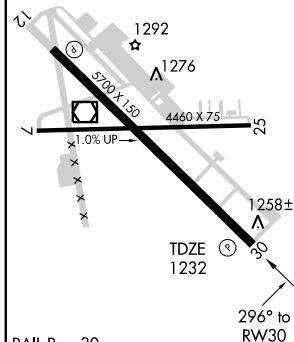
UNICOM
123.0 (CTAF) 0



NW-1, 03 JUN 2010 to 01 JUL 2010

ELEV 1249

D



CATEGORY	A	B	C	D
RNP 0.14 DA*	1623-1	391 (400-1)		NA
RNP 0.20 DA**	1674-1 1/4	442 (500-1 1/4)		NA
RNP 0.30 DA***	1728-1 1/2	496 (500-1 1/2)		NA

**SPECIAL AIRCRAFT AND AIRCREW
AUTHORIZATION REQUIRED**

RAIL Rwy 30

REIL Rws 12 and 30

MRL Rwy 12-30

VOR/DME EAT 111.0 Chan 47	APP CRS 285°	Rwy Idg TDZE Apt Elev 1249	N/A N/A 1249
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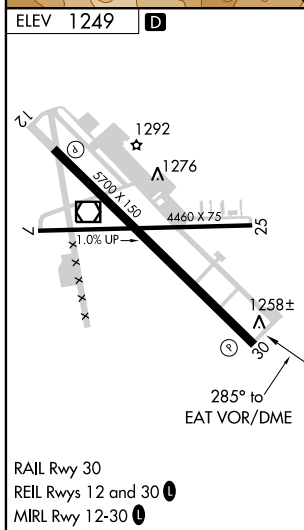
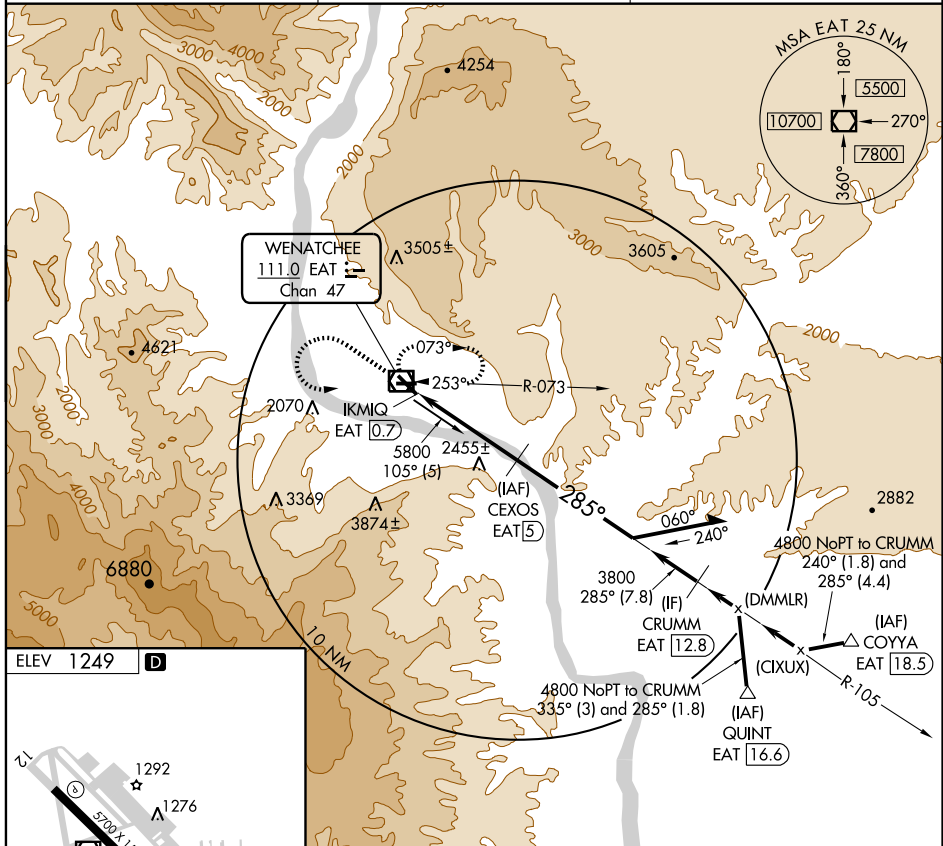
VOR/DME-A

WENATCHEE/PANGBORN MEMORIAL (EAT)

- V** Circling NA northeast of Rwy 12-30.
- A** When local altimeter setting not received, use Ephrata altimeter setting and increase all MDA 80 feet.

MISSED APPROACH: Climb to 3900 then climbing left turn to 6000 direct EAT VOR/DME and hold, continue climb-in-hold to 6000.

ASOS 119.925	SEATTLE CENTER 126.1 291.6	UNICOM 123.0 (CTAF)
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3900	6000	EAT 111.0	CEXOS EAT 5	Remain within 10 NM
VOR/DME IKMIQ EAT 0.7	5200	3800	4800	
105°	285°			
4.3 NM				
CATEGORY	A	B	C	D
CIRCLING	3180-1¼ 1931 (2000-1¼)	3180-1½ 1931 (2000-1½)	3180-3	1931 (2000-3)

VOR/DME EAT 111.0 Chan 47	APP CRS 100°	Rwy Idg TDZE Apt Elev 1249	N/A N/A
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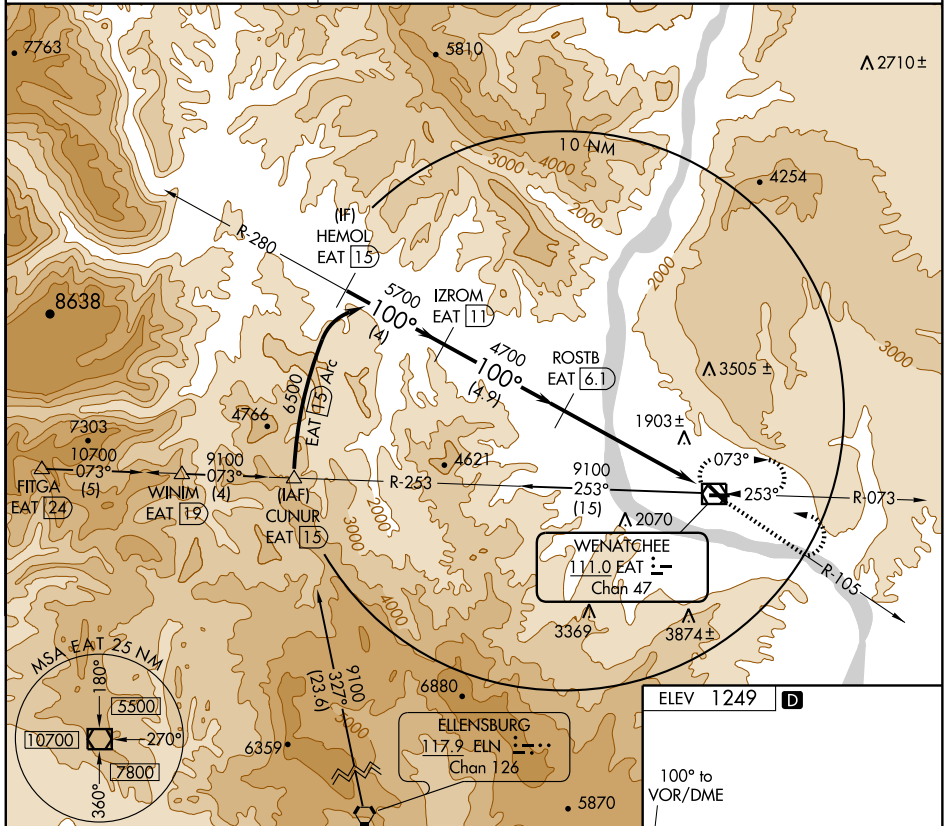
VOR/DME-C

WENATCHEE/PANGBORN MEMORIAL (EAT)

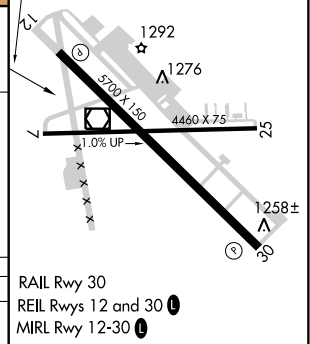
⚠ Circling NA northeast of Rwy 12-30.
⚠ When local altimeter setting not received, use Ephrata altimeter setting and increase all MDA 80 feet.

MISSED APPROACH: Climb to 5000 via EAT VOR/DME R-105 then climbing left turn to 7500 direct EAT VOR/DME and hold, continue climb-in-hold to 7500.

ASOS 119.925	SEATTLE CENTER 126.1 291.6	UNICOM 123.0 (CTAF) ①
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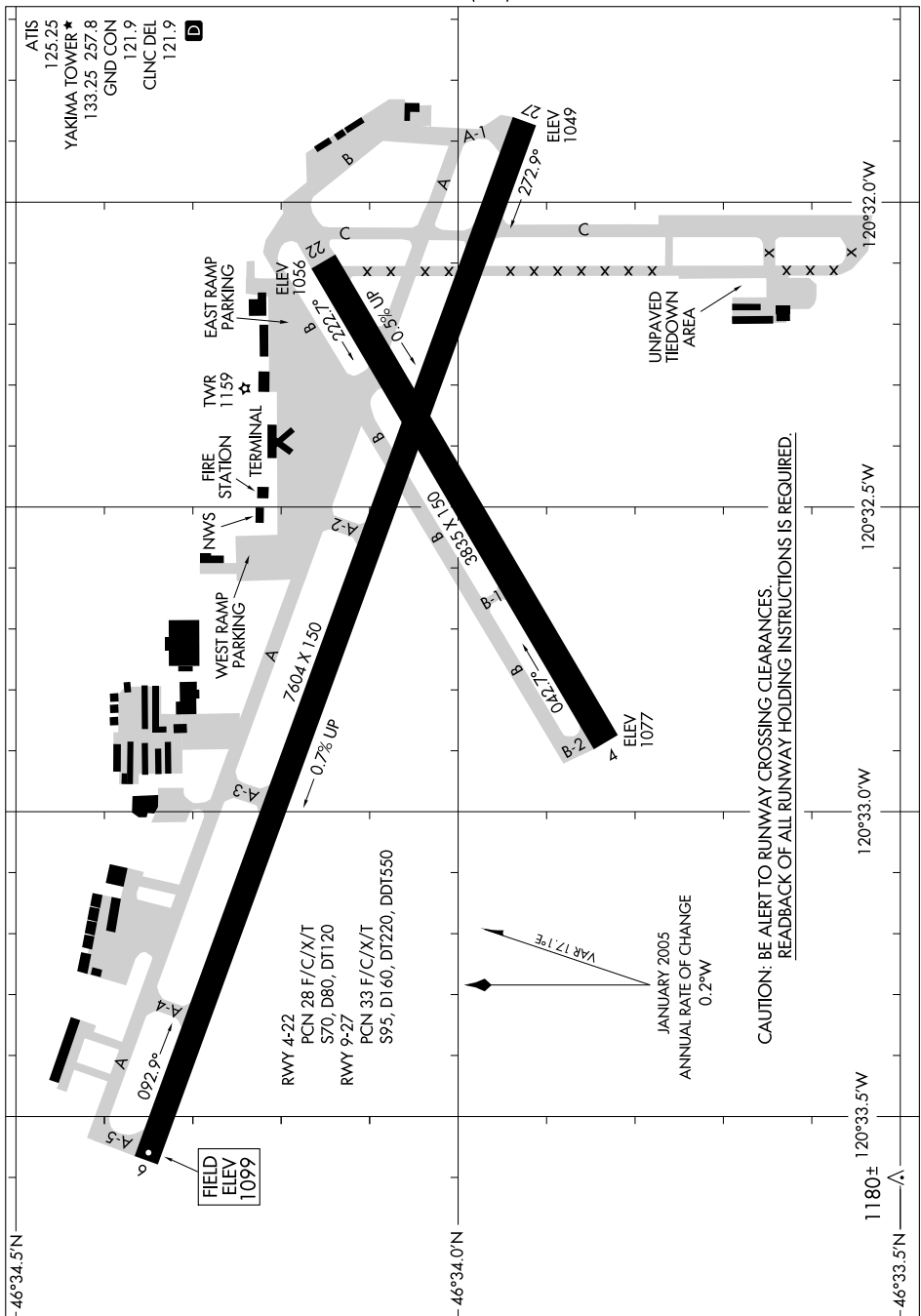


HEMOL EAT 15	IZROM EAT 11	ROSTB EAT 6.1	5000 EAT R-105	7500 EAT	111.0 EAT
6500	5700	4700			
Procedure Turn NA					
4 NM	4.9 NM	6.1 NM			
CATEGORY A	CATEGORY B	CATEGORY C	CATEGORY D		
2660-1¼ 1411 (1500-1¼)	2660-1½ 1411 (1500-1½)	2660-3 1411 (1500-3)			
CIRCLING					



AIRPORT DIAGRAM

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)
YAKIMA, WASHINGTON



LOM YK <u>371</u>	APCH CRS 269°	Rwy ldg 7603 TDZE 1065 Arpt Elev 1095
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AL-465 [USA]

YAKIMA AIR TERMINAL/ MC ALLISTER FLD (KYKM)

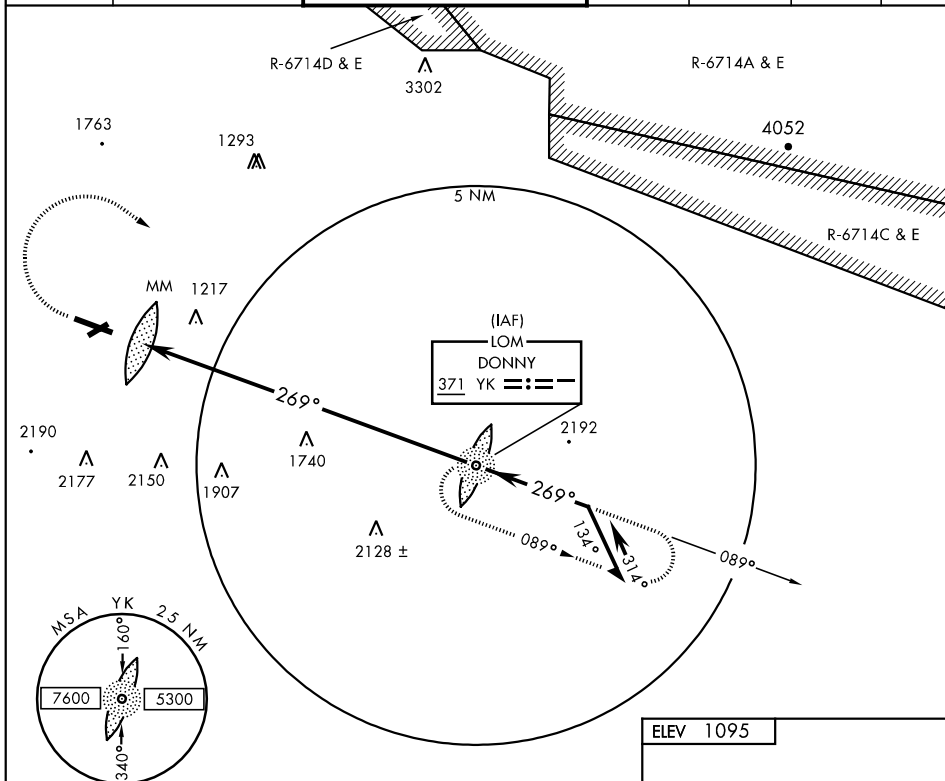


A NA

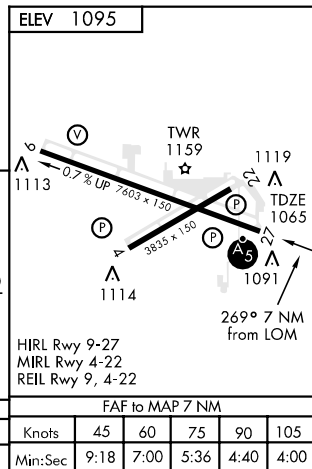
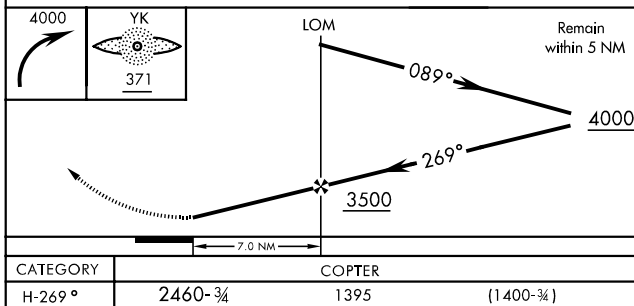


MISSED APPROACH: Climbing right turn to 4000 direct DONNY LOM and hold.

ATIS ★ 125.25	CHINOOK APP CON 123.8 263.15	YAKIMA TOWER ★ 133.25 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 121.9	UNICOM 122.95	ASOS
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COPTER ONLY

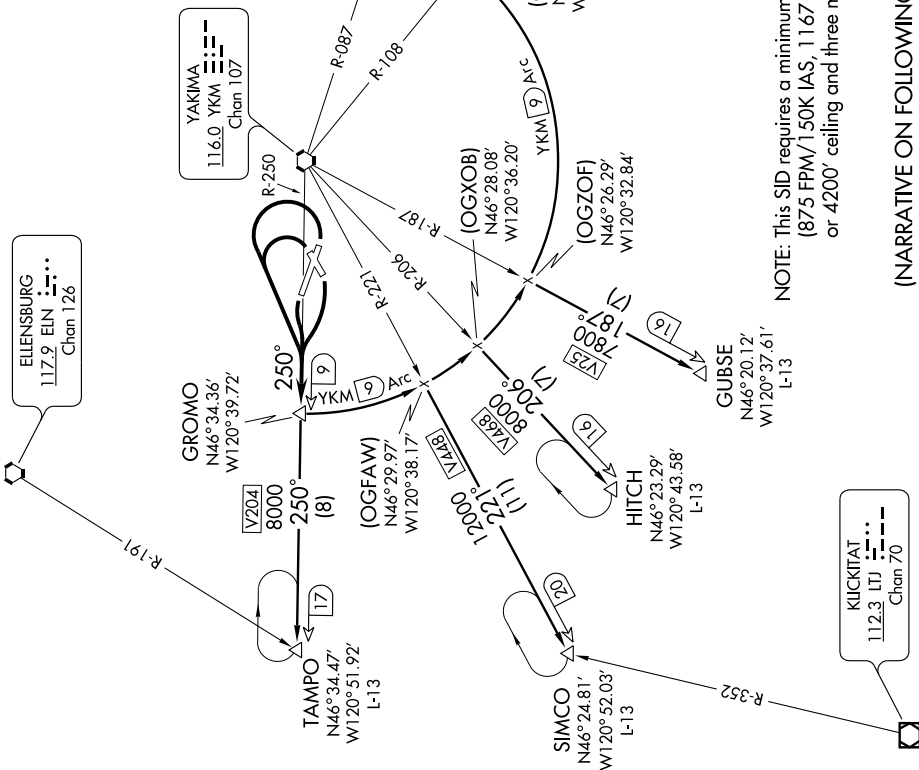
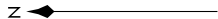


GROMO TWO DEPARTURE

SL-465 (FAA)

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)
YAKIMA, WASHINGTON

ATIS
125.25
GND CON
121.9
YAKIMA TOWER ★
133.25 (CTAF) 257.8
CHINOOK DEP CON
123.8 263.15



NOTE: Chart not to scale.

(NARRATIVE ON FOLLOWING PAGE)

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 4, 9: Turn left, thence....

TAKE-OFF RUNWAY 22: Turn right, thence....

TAKE-OFF RUNWAY 27: Climb runway heading, thence....

....Intercept and proceed via YKM R-250 to the GROMO DME Fix (YKM R-250/9), thence via (assigned transition).

GUBSE TRANSITION (GROMO2.GUBSE): From over GROMO DME Fix via 9 DME Arc and V25 to GUBSE DME Fix.

HITCH TRANSITION (GROMO2.HITCH): From over GROMO DME Fix via 9 DME Arc and V468 to HITCH DME Fix. NOTE: Climb in holding pattern NE of HITCH DME Fix, right turns, 206° inbound to 8000 feet before proceeding on course.

PAPPS TRANSITION (GROMO2.PAPPS): From over GROMO DME Fix via 9 DME Arc and V204 to PAPPS INT.

SIMCO TRANSITION (GROMO2.SIMCO): From over GROMO DME Fix via 9 DME Arc and V448 to SIMCO INT. NOTE: Climb in holding pattern NE of SIMCO INT, right turns, 221° inbound to 12000 feet before proceeding on course.

SUNED TRANSITION (GROMO2.SUNED): From over GROMO DME Fix via 9 DME Arc and V4 to SUNED INT.

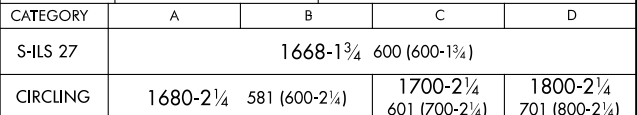
TAMPO TRANSITION (GROMO2.TAMPO): From over GROMO DME Fix via V204 to TAMPO INT. NOTE: Climb in holding pattern east of TAMPO INT, right turns, 250° inbound to 8000' before proceeding on course.

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

- MALSR

UNICOM
122.95

MIRL Rwy 4-22
HIRL Rwy 9-27 **L**
REIL Rwys 4, 9, and 22



LOC I-YKM	APP CRS	Rwy Idg	7604
110.1	274°	TDZE	1068
		Apt Elev	1099

ILS Z RWY 27

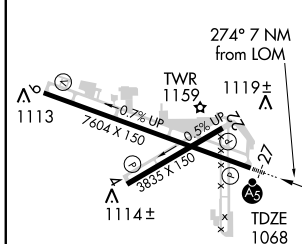
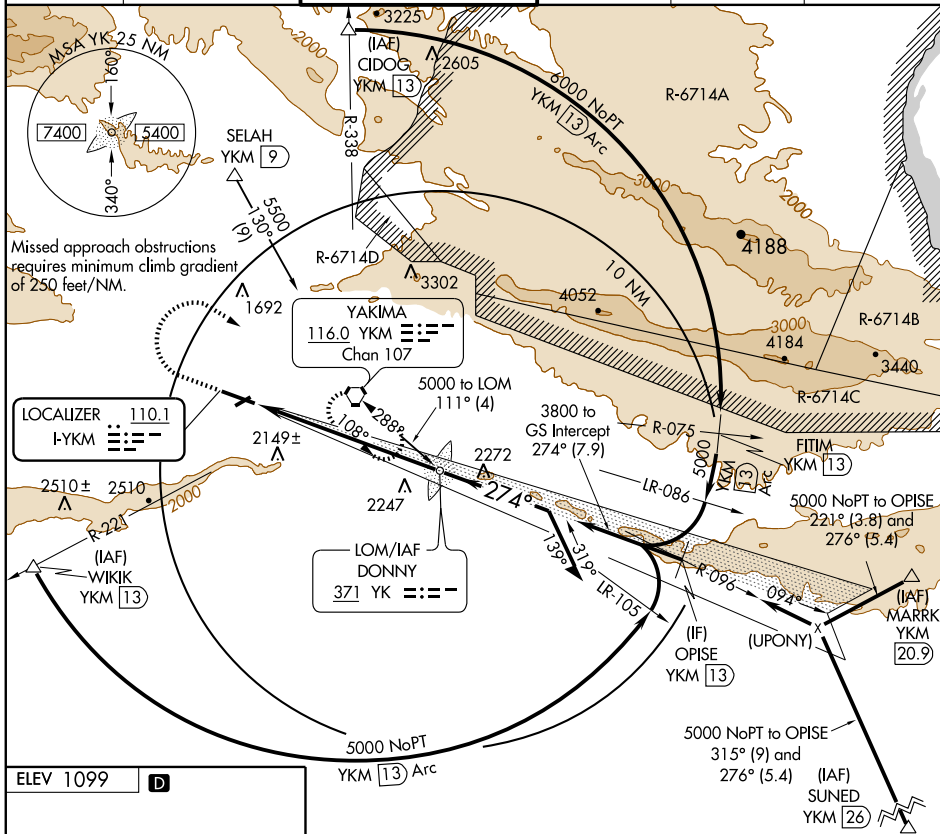
YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

⚠ Circling NA south of Rwy 9/27. When local altimeter setting not received, procedure NA. Circling requires descent on GS to CMDA.
 **RVR 1800 authorized with use of FD or AP or HUD to DA.





MISSED APPROACH: Climb to 2600, then climbing right turn to 4600 direct YKM VORTAC and hold, continue climb-in-hold to 4600.

ATIS	CHINOOK APP CON ★	YAKIMA TOWER ★	GND CON	CLNC DEL	UNICOM
125.25	123.8 263.15	133.25 (CTAF) 0 257.8	121.9	121.9	122.95



MIRL Rwy 4-22
 HIRL Rwy 9-27
 REIL Rws 4, 9, and 22

2600 ↑	4600 ↗	YKM 116.0 	LOM 3382	094°	Remain within 10 NM
				274°	4300
				3800	GS 3.00° TCH 57
			7 NM		
CATEGORY	A	B	C	D	
S-ILS 27	**1268/24 200 (200-½)				
CIRCLING	1640-1 541 (600-1)	1660-1 561 (600-1)	1700-1¾ 601 (700-1¾)	1800-2¼ 701 (800-2¼)	

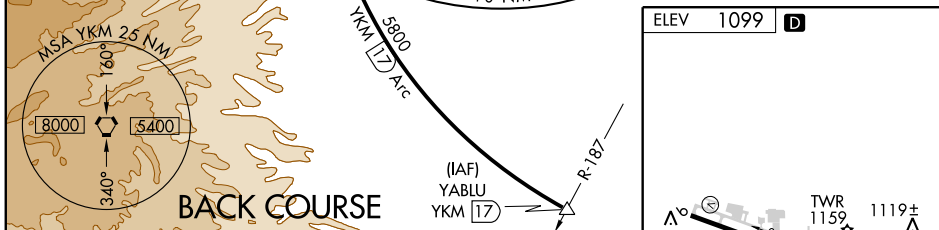
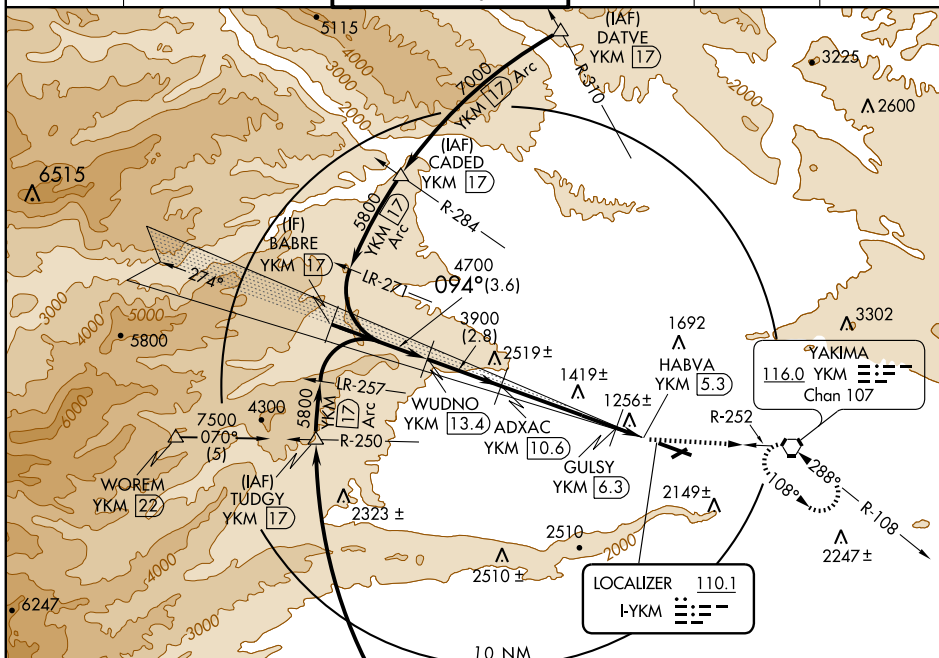
LOC I-YKM	APP CRS	Rwy Idg TDZE	N/A
110.1	094°	Apt Elev	1099

LOC/DME BC-B

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

<p>Simultaneous reception of I-YKM and YKM DME required.</p> <p>Circling NA south of Rwy 9-27.</p> <p>When local altimeter setting not received, procedure NA.</p>	<p>MISSED APPROACH: Climb to 4600 via YKM VORTAC R-252 to YKM VORTAC and hold, continue climb-in-hold to 4600.</p>
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ATIS	CHINOOK APP CON ★	YAKIMA TOWER ★	GND CON	CLNC DEL	UNICOM
125.25	123.8 263.15	133.25 (CTAF) 0 257.8	121.9	121.9	122.95

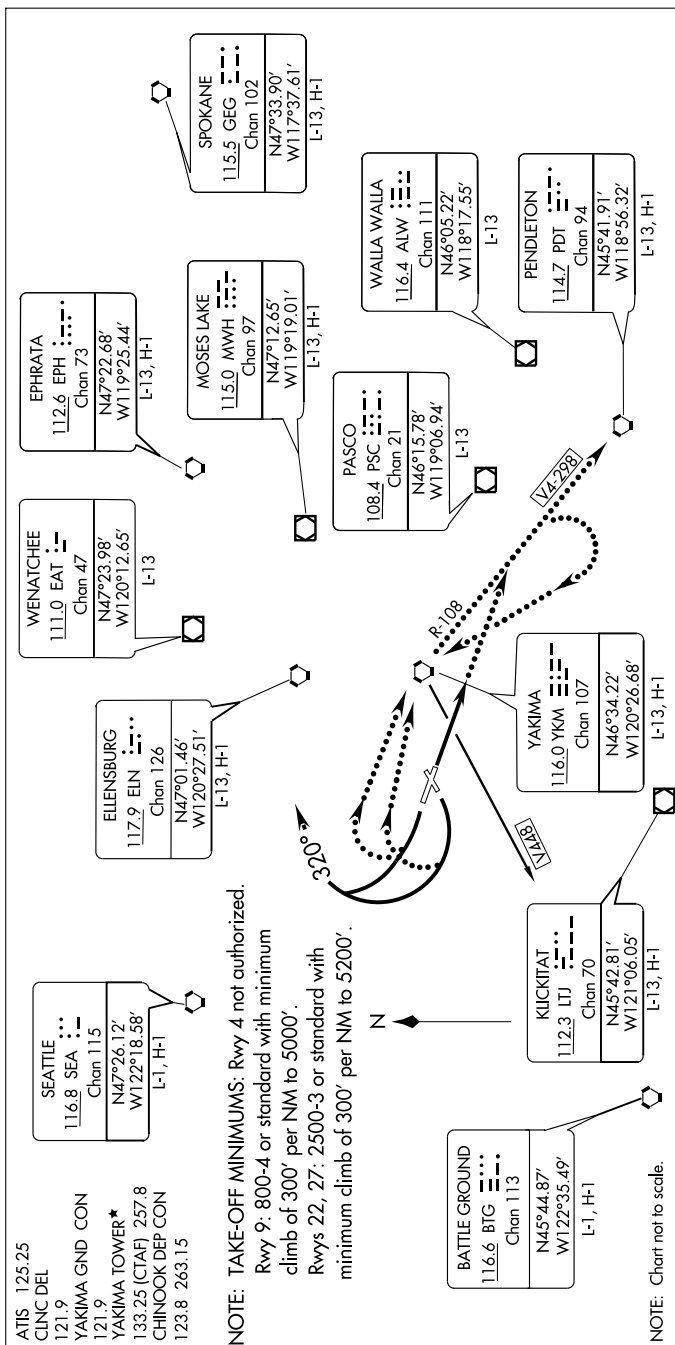


BABRE YKM 17		WUDNO YKM 13.4		ADXAC YKM 10.6		GULSY YKM 6.3		HABVA YKM 5.3		4600 YKM R-252		YKM 116.0	
5800		4700		094°		3900		5.94° TCH 50		2160		Disregard glide slope indications.	
Procedure Turn NA													
		3.6 NM		2.8 NM		4.4 NM		1 NM		0.6			
CATEGORY		A		B		C		D					
CIRCLING		1760-1		661 (700-1)		1760-1 ³ / ₄ 661 (700-1 ³ / ₄)		1800-2 ¹ / ₄ 701 (800-2 ¹ / ₄)					
MIRL Rwy 4-22 HIRL Rwy 9-27 REIL Rws 4, 9, and 22													

NACHES ONE DEPARTURE

SL-465 (FAA)

YAKIMA, WASHINGTON



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Runway heading for vector to assigned route/fix. Thence

TAKE-OFF RUNWAY 22 and 27: Turn right heading 320° for vector to assigned route/fix. Thence

.... Maintain 10,000' or assigned lower altitude. Expect clearance to filed altitude 5 minutes after departure.

LOST COMMUNICATIONS: If no transmissions are received for one minute after departure: Rwy 9 climb runway heading and outbound YKM VORTAC R-108, Rwy 22, 27, climbing right turn direct YKM VORTAC and outbound YKM VORTAC R-108, Eastbound V4-V298 climb on course, other departures continue climb on YKM R-108 until reaching assigned altitude, (southwestbound V448 continue minimum climb of 300' per NM to 9500') then climbing right turn direct YKM VORTAC. Cross YKM VORTAC at or above MEA or MCA for route of flight.

APP CRS	Rwy Idg	7604
264°	TDZE	1068
	Apt Elev	1099

RNAV (GPS) Y RWY 27

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKMA)

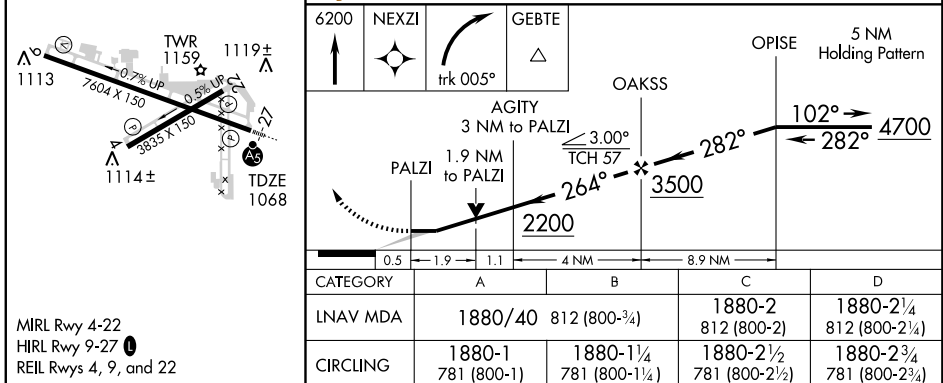
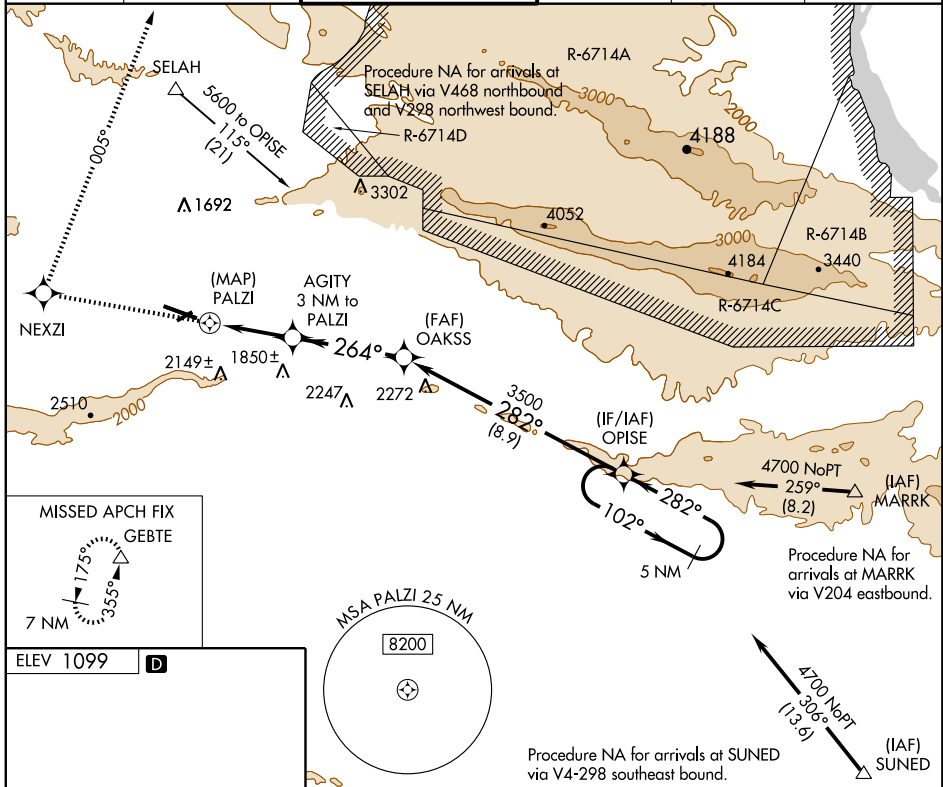
▼ When local altimeter setting not received, procedure NA. Circling NA south of Rwy 9/27. DME/DME RNP-0.3 NA. For inoperative MALSR increase LNAV Cat A visibility to RVR 5000.

MALSR



MISSED APPROACH: Climb to 6200 direct NEXZI and right turn via track 005° to GEBTE and hold, continue climb-in-hold to 6200.

ATIS 125.25	CHINOOK APP CON★ 123.8 263.15	YAKIMA TOWER★ 133.25 (CTAF) 257.8	GND CON 121.9	CLNC DEL 121.9	UNICOM 122.95
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WAAS CH 90512 W27A	APP CRS 274°	Rwy Idg TDZE Apt Elev	7604 1068 1099
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RNAV (GPS) Z RWY 27

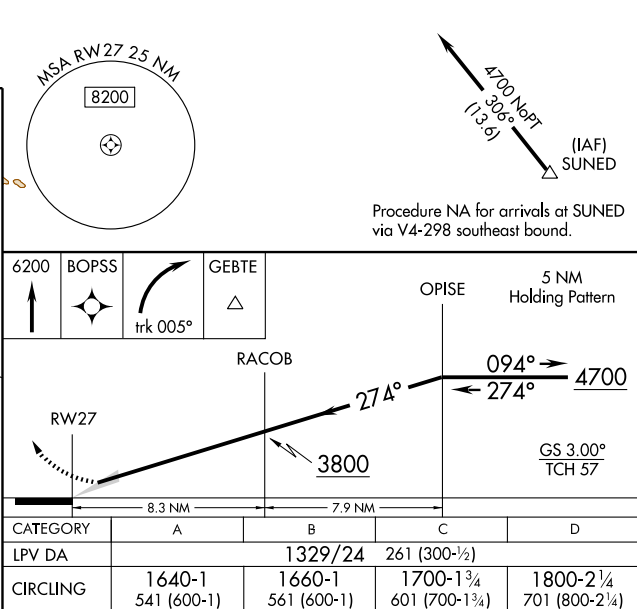
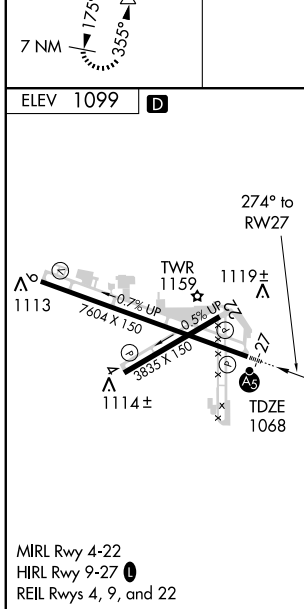
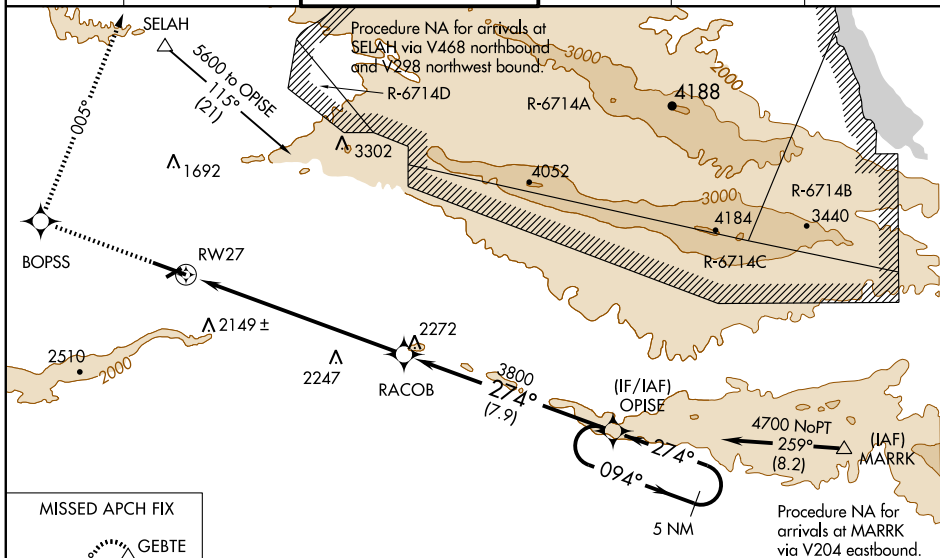
YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

When local altimeter setting not received, procedure NA.
Circling NA south of Rwy 9/27. DME/DME RNP-0.3 NA.
For inoperative MALSR increase LPV all Cnts visibility to
RVR 5000. Circling requires descent on glidepath to CMDA.



MISSED APPROACH: Climb to 6200 direct
BOPSS and right turn via track 005° to GEBTE
and hold, continue climb-in-hold to 6200.

ATIS 125.25	CHINOOK APP CON ★ 123.8 263.15	YAKIMA TOWER ★ 133.25 (CTAF) 257.8	GND CON 121.9	CLNC DEL 121.9	UNICOM 122.95
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VORTAC YKM 116.0 Chan 107	APP CRS 251°	Rwy Idg TDZE Apt Elev N/A N/A 1099
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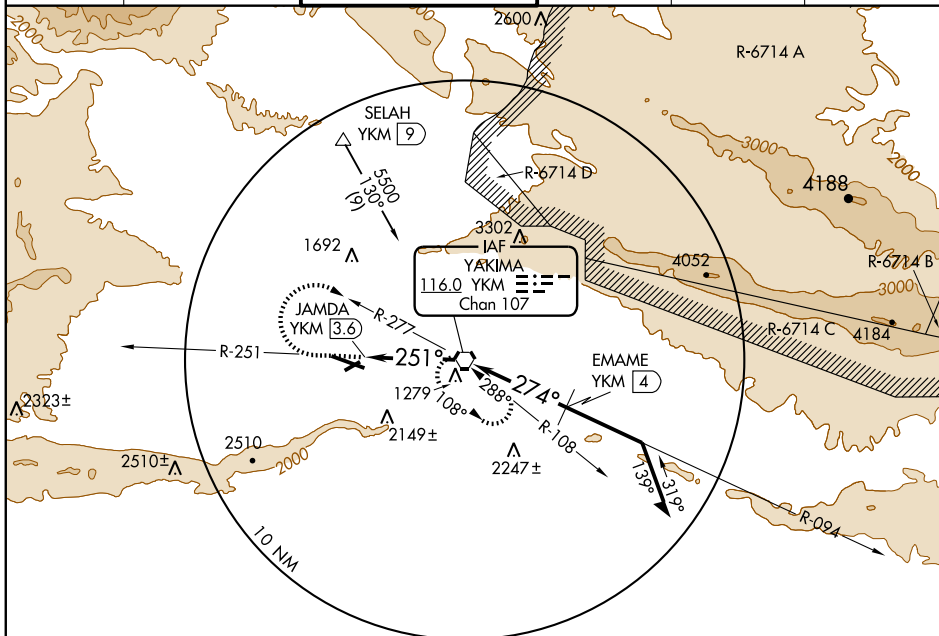
VOR-A

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

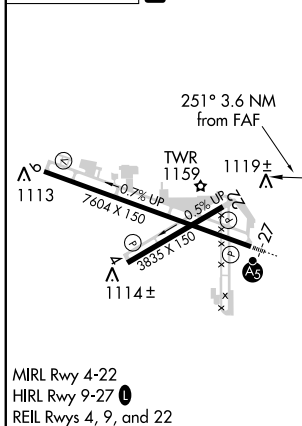
▼ DME required.
 ▲ Circling not authorized South of Rwy 9-27.
 ▲ When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 2600 via YKM VORTAC R-251 then climbing right turn to 4600 via YKM VORTAC R-277 to YKM VORTAC and hold, continue climb-in-hold to 4600.

ATIS 125.25	CHINOOK APP CON★ 123.8 263.15	YAKIMA TOWER★ 133.25 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 121.9	UNICOM 122.95
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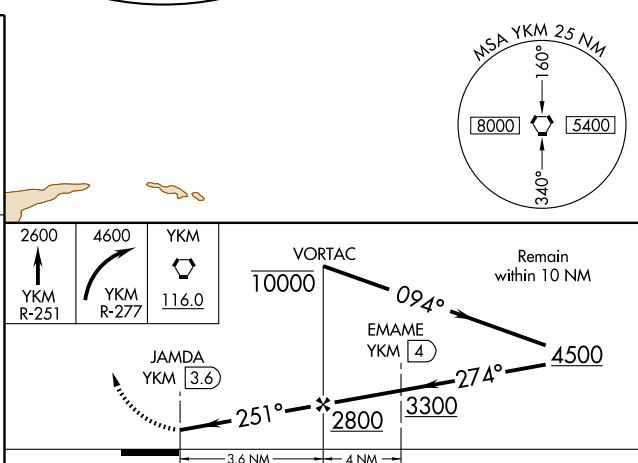


ELEV 1099	D
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MIRL Rwy 4-22
 HIRL Rwy 9-27
 REIL Rws 4, 9, and 22

FAF to MAP 3.6 NM					
Knots	60	90	120	150	180
Min:Sec	3:36	2:24	1:48	1:26	1:12



CATEGORY	A	B	C	D
CIRCLING	1840-1 741 (800-1)	1840-1¼ 741 (800-1¼)	1840-2¼ 741 (800-2¼)	1840-2½ 741 (800-2½)

VOR/DME or TACAN RWY 27
YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)

MISSED APPROACH: Climb to 2600 via YKM VORTAC R-244, then climbing right turn to 4600 via YKM VORTAC R-276 to YKM VORTAC and hold, continue climb-in-hold to 4600 (TACAN aircraft, continue climb to 5000 via YKM VORTAC R-108 to SUNED/YKM 26 DME and hold west, right turns, 108° inbound).

[illegible]

MIRL Rwy 4-22
HIRL Rwy 9-27 **L**
REIL Rwy 4, 9, and 22

2600 ↑ YKM R-244	4600 ↗ YKM R-276	YKM 116.0
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VORTAC 10000

Remain within 10 NM

094°

EMAME YKM 4

274°

4400

3300

2400

244°

3.40° TCH 57

3.6 NM

4 NM

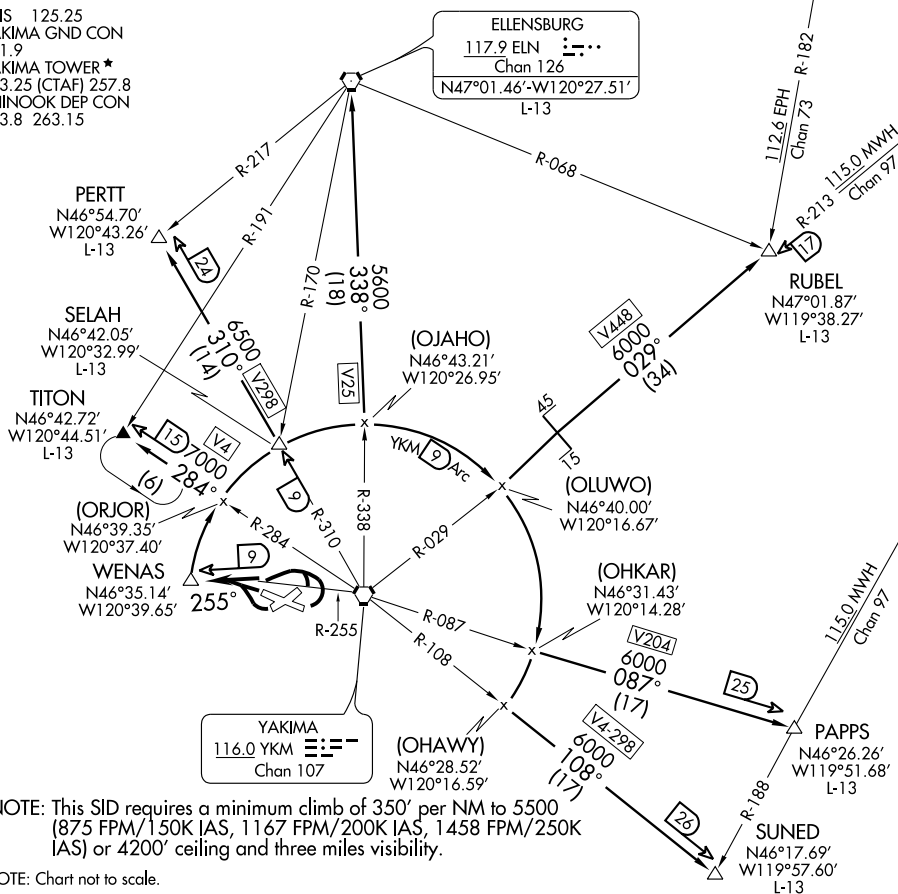
CATEGORY	A	B	C	D
S-27	2100/60 1032 (1100-1¼)	2100-1½ 1032 (1100-1½)	2100-3	1032 (1100-3)
CIRCLING	2100-1¼ 1001 (1100-1¼)	2100-1½ 1001 (1100-1½)	2100-3	1001 (1100-3)

WENAS FIVE DEPARTURE

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)
SL-465 (FAA)

YAKIMA, WASHINGTON

ATIS 125.25
YAKIMA GND CON
121.9
YAKIMA TOWER ★
133.25 (CTAF) 257.8
CHINOOK DEP CON
123.8 263.15



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 4, 9: Turn left thence...

TAKE-OFF RUNWAY 22: Turn right thence....

TAKE-OFF RUNWAY 27: Climb runway heading thence....

....Intercept and proceed via YKM R-255 to the WENAS DME Fix (YKM 255/9) thence via (assigned transition).

ELLENSBURG TRANSITION (WENAS5.ELN): From over WENAS DME Fix via 9 DME Arc and V25 to ELN VORTAC.

PAPPS TRANSITION (WENAS5.PAPPS): From over WENAS DME Fix via 9 DME Arc and V204 to PAPPS INT.

PERTT TRANSITION (WENAS5.PERTT): From over WENAS DME Fix via 9 DME Arc and V298 to PERTT INT.

RUBEL TRANSITION (WENAS5.RUBEL): From over WENAS DME Fix via 9 DME Arc and V448 to RUBEL INT.

SELAH TRANSITION (WENAS5.SELAH): From over WENAS DME Fix via 9 DME Arc to SELAH INT.

SUNED TRANSITION (WENAS5.SUNED): From over WENAS DME Fix via 9 DME Arc and V4 to SUNED INT.

TITON TRANSITION (WENAS5.TITON): From over WENAS DME Fix via 9 DME Arc and V4 to TITON INT.


NOTE: Climb in holding pattern Southeast of TITON INT, left turns, 284° inbound to 7000 feet before proceeding on course.

YAKIMA FIVE DEPARTURE

YAKIMA AIR TERMINAL/MCALLISTER FIELD (YKM)
SL-465 (FAA)

YAKIMA, WASHINGTON

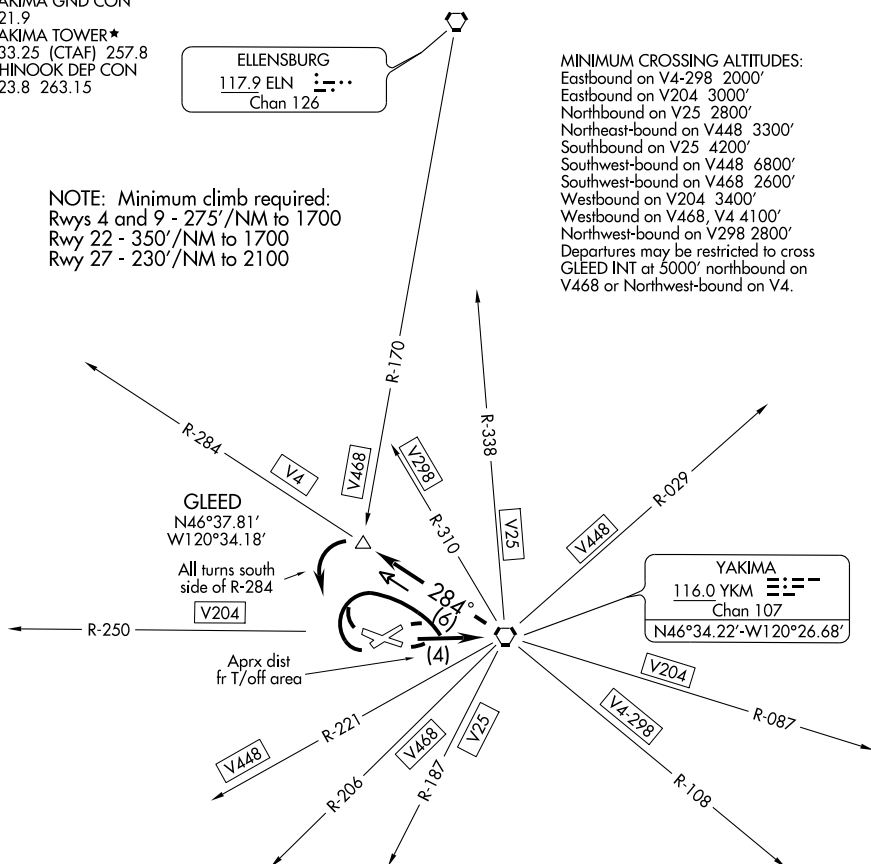
ATIS 125.25
YAKIMA GND CON
121.9
YAKIMA TOWER★
133.25 (CTAF) 257.8
CHINOOK DEP CON
123.8 263.15

ELLENSBURG
117.9 ELN 
Chan 126

NOTE: Minimum climb required:
Rwys 4 and 9 - 275'/NM to 1700
Rwy 22 - 350'/NM to 1700
Rwy 27 - 230'/NM to 2100

MINIMUM CROSSING ALTITUDES:

Eastbound on V4-298 2000'
Eastbound on V204 3000'
Northbound on V25 2800'
Northeast-bound on V448 3300'
Southbound on V25 4200'
Southwest-bound on V448 6800'
Southwest-bound on V468 2600'
Westbound on V204 3400'
Westbound on V468, V4 4100'
Northwest-bound on V298 2800'
Departures may be restricted to cross
GLEED INT at 5000' northbound on
V468 or Northwest-bound on V4.



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAYS 4, 22 or 27: Turn right, thence....

TAKE-OFF RUNWAY 9: Turn left, thence....

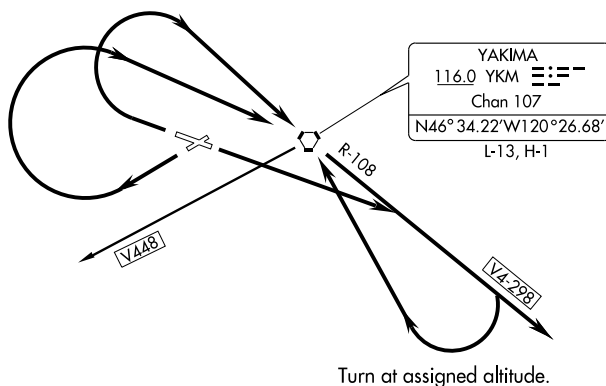
....Climb direct YKM VORTAC. Continue climb on YKM R-284 between the VORTAC and GLEED INT., all turns south of the 284 radial, to cross YKM VORTAC at or above (minimum crossing altitudes). Thence via (assigned route).

ATIS 125.25
 CLNC DEL
 121.9
 YAKIMA GND CON
 121.9
 YAKIMA TOWER ★
 133.25 (CTAF) 257.8
 CHINOOK DEP CON
 123.8 263.15

NOTE: TAKE-OFF MINIMUMS: Rwy 4 not authorized.

Rwy 9: 800-4 or standard with a minimum
 climb of 300' per NM to 5000'.

Rwys 22 and 27: 2500-3 or standard with minimum
 climb of 300' per NM to 5200'.



NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 9: Climb runway heading and outbound YKM R-108. Thence....

TAKE-OFF RUNWAYS 22 and 27: Climbing right turn direct YKM VORTAC and outbound R-108. Thence....

..... Eastbound aircraft V4-298 continue climb on course, other departures continue climb on YKM R-108 until reaching assigned altitude, (Southwestbound V448 continue minimum climb of 300' per NM to 9500'), then climbing right turn direct YKM VORTAC. All aircraft cross YKM VORTAC at or above MEA or MCA for route of flight.

INSTRUMENT APPROACH PROCEDURE CHARTS



IFR ALTERNATE AIRPORT MINIMUMS

Standard alternate minimums for non precision approaches are 800-2 (NDB, VOR, LOC, TACAN, LDA, VORTAC, VOR/DME, ASR or WAAS LNAV); for precision approaches 600-2 (ILS or PAR). Airports within this geographical area that require alternate minimums other than standard or alternate minimums with restrictions are listed below. NA - means alternate minimums are not authorized due to unmonitored facility or absence of weather reporting service. Civil pilots see FAR 91. IFR Alternate Airport Minimums: Ceiling and Visibility Minimums not applicable to USA/USN/USAF. Pilots must review the IFR Alternate Airport Minimums Notes for alternate airfield suitability.

NAME ALTERNATE MINIMUMS

ALBANY, OR

ALBANY MUNI VOR/DME or GPS-A
NA except for operators with approved weather reporting service.

ARLINGTON, WA

ARLINGTON MUNI NDB or GPS Rwy 34
Category D, 800-2½.
NA when Paine Field control tower closed.

ASTORIA, OR

ASTORIA RGNL RNAV (GPS) Rwy 26¹²
VOR Rwy 8³

- ¹NA when local weather not available.
²Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-3.
³Category C, 800-2¼; Category D, 900-3.

AURORA, OR

AURORA STATE LOC Rwy 17¹
RNAV (GPS) Rwy 17²³
RNAV (GPS) Rwy 35²

- ¹Category D, 800-2¼.
²NA when local weather not available.
³Categories A, B, 900-2; Category C, 900-2¾;
Category D, 900-2¾.

BAKER, MT

BAKER MUNI NDB Rwy 13¹
NDB Rwy 31²

- ¹Categories A,B, 1100-2; Categories C,D,
1100-3.
²Categories A,B, 1000-2; Category C, 1000-2¾;
Category D, 1000-3.

BAKER CITY, OR

BAKER CITY MUNI RNAV (GPS) Rwy 13¹²
VOR-A¹³
VOR/DME Rwy 13²⁴

- ¹NA when local weather not available.
²Category D, 900-2¾.
³Categories A,B, 1900-2; Categories C,D,
1900-3.
⁴NA when control zone not in effect.

NAME ALTERNATE MINIMUMS

BELLINGHAM, WA

BELLINGHAM INTL ILS or LOC Rwy 16
RNAV (GPS) Rwy 16
NA when local weather not available.

BIG PINEY, WY

MILEY MEMORIAL FIELD VOR Rwy 31
Category D, 800-2¼.

BILLINGS, MT

BILLINGS LOGAN
INTL NDB Rwy 10L¹
RNAV (GPS) Rwy 10L²
RNAV (GPS) Rwy 28R³

- ¹Category D, 800-2¼.
²Categories A,B,C,D, 800-2¼.
³Categories A,B, 900-2; Categories C,D,
900-3.

BOISE, ID

BOISE AIR TERMINAL(GOWEN
FIELD) LOC BC Rwy 28L
RNAV (GPS) Y Rwy 10R
RNAV (GPS) Y Rwy 28L
VOR/DME or TACAN Rwy 10L
VOR/DME or TACAN Rwy 28L
Category E, 1000-3.

BOZEMAN, MT

GALLATIN FIELD VOR Rwy 12
Category C, 800-2¼; Category D, 800-2½.

BREMERTON, WA

BREMERTON NATIONAL .. RNAV (GPS) Rwy 1
RNAV (GPS) Rwy 19¹
NA when local weather not available.

- ¹Categories A,B, 1200-2; Categories C,D,
1200-3.

BUFFALO, WY

JOHNSON COUNTY RNAV (GPS) Rwy 31¹
VOR/DME Rwy 31²
NA when local weather not available.
¹Category D, 800-2¼.

NAME ALTERNATE MINIMUMS

BURLEY, ID

BURLEY MUNI VOR-A
 VOR/DME-B
 NA when local weather not received.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL NDB Rwy 10'
 RNAV (GPS) Rwy 10
 RNAV (GPS) Rwy 28

NA when local weather not available.

¹Categories A,B, 1300-2; Categories C,D,
 1300-3.

BURNS, OR

BURNS MUNI VOR Rwy 30
 Categories A, B, 1400-2; Categories C,D,
 1400-3.

BUTTE, MT

BERT MOONEY ILS Y Rwy 15'
 LOC/DME Rwy 15'
 RNAV (GPS) Y Rwy 15'
 RNAV (GPS) Z Rwy 15,1200-2
 VOR or GPS-B,1400-3
 VOR/DME or GPS-A,3000-3

¹Categories A, B, C, 1200-4.

²Categories A,B, 1300-2; Categories C,D,
 1300-3.

³Categories A,B, 1500-2; Categories C,D,
 1500-3.

CALDWELL, ID

CALDWELL
 INDUSTRIAL RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 30
 NA when local weather not available.

CASPER, WY

CASPER/NATRONA
 COUNTY INTL ILS or LOC Rwy 3
 ILS, Categories A,B, 800-2; Category C 800-
 2½; Category D, 800-2¾; Category E, 900-3.
 LOC, Category C, 800-2½; Category D, 800-
 2¾; Category E, 900-3.

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON
 FIELD ILS or LOC Rwy 27'
 NDB Rwy 27'
 RNAV (GPS) Rwy 9²
 RNAV (GPS) Rwy 13²
 RNAV (GPS) Rwy 31²

¹NA when control tower closed.

²NA when local weather not available.

NAME ALTERNATE MINIMUMS

CODY, WY

YELLOWSTONE
 REGIONAL RNAV (GPS) Rwy 22'
 VOR or GPS-A²
¹Category C, 800-2¼; Category D, 200-2¼.
²Category D, 900-3.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY
 BOYINGTON FIELD ILS or LOC/DME Rwy 5
 NDB Rwy 5
 RNAV (GPS) Rwy 5
 VOR Rwy 5
 VOR/DME Rwy 1

NA when local weather not available.

CORVALLIS, OR

CORVALLIS MUNI VOR-A
 Categories A,B,1200-2; Categories C,D,
 1200-3.

DEER PARK, WA

DEER PARK RNAV (GPS) Rwy 34
 NA when local weather not available.

DILLON, MT

DILLON VOR or GPS-A,1500-3
 VOR/DME or GPS-B
 NA when Dillon altimeter setting not available.

DOUGLAS, WY

CONVERSE COUNTY VOR Rwy 29
 Categories A,B, 1100-2; Categories C,D,
 1100-3. DME standard.

EASTSOUND, WA

ORCAS ISLAND RNAV (GPS)-A
 Categories A, B, 1100-2.
 NA when local weather not available.

ELLENSBURG, WA

BOWERS FIELD RNAV (GPS) Rwy 25'
 RNAV (GPS) Rwy 29
 VOR-B²

NA when local weather not available.

¹Category D, 800-2¼.

²Category A, 1500-2.

EPHRATA, WA

EPHRATA MUNI RNAV (GPS) Rwy 3'
 RNAV (GPS) Rwy 21²
 VOR/DME Rwy 3'
 VOR Rwy 21'

NA when local weather not available.

¹Category D, 1300-3.

²Category C, 800-2¼; Category D, 1300-3.

NAME ALTERNATE MINIMUMS

EUGENE, OR

MAHLON-SWEET

FIELD ILS or LOC/DME Z Rwy 16R¹
 ILS or LOC Y Rwy 16R¹
 ILS or LOC/DME Rwy 16L¹²
 RNAV (GPS) Rwy 34R²
 VOR or GPS-A³

¹NA when control tower closed.

²NA when local weather not available.

³Categories A,B, 900-2; Category C, 900-2½;
 Category D, 900-2¾.

EVANSTON, WY

EVANSTON-UINTA COUNTY

BURNS FIELD ILS or LOC/DME Rwy 23
 Categories C,D, 700-2.

EVERETT, WA

SNOHOMISH COUNTY(PAINE

FIELD) ILS or LOC/DME Rwy 16R
 NA when control tower closed.
 NA when local weather not available.

FORT BENTON, MT

FORT BENTON RNAV (GPS) Rwy 23
 NA when local weather not available.

GILLETTE, WY

GILLETTE-CAMPBELL

COUNTY ILS or LOC Rwy 34¹²
 RNAV (GPS) Rwy 16³
 RNAV (GPS) Rwy 34⁴
 VOR/DME Rwy 16⁵
 VOR/DME Rwy 34¹

¹Categories A,B, 900-2; Category C, 900-2½;
 Category D, 1000-3.

²NA when control tower closed.

³Categories A,B,C, 800-2¾; Category D,
 1000-3.

⁴Categories A,B,C,D, 1200-4.

⁵Category C, 800-2¾; Category D, 1000-3.

GLASGOW, MT

WOKAL FIELD/

GLASGOW INTL VOR Rwy 12
 Categories A,B, 900-2; Categories C,D, 900-3.
 VOR/DME standard.

GLENDEIVE, MT

DAWSON

COMMUNITY NDB or GPS Rwy 12,900-2¾

GOODING, ID

GOODING MUNI RNAV (GPS) Rwy 7
 RNAV (GPS) Rwy 25

NA when local weather not available.

NAME ALTERNATE MINIMUMS

GRAY AAF (KGRF)

FORT LEWIS, WA NDB Rwy 15
 NDB Rwy 33
 ILS or LOC Rwy 15
 COPTER NDB Rwy 15

NA when control tower closed.

GREAT FALLS, MT

GREAT FALLS INTL NDB Rwy 34
 Category D, 800-2¼.

GREYBULL, WY

SOUTH BIG HORN COUNTY RNAV (GPS)-A
 RNAV (GPS) Rwy 33¹

NA when local weather not available.

¹Category D, 1200-3.

HAILEY, ID

FRIEDMAN

MEMORIAL RNAV (GPS) W Rwy 31
 Categories A,B, 1900-2; Category C, 1900-3.

HAVRE, MT

HAVRE CITY-COUNTY VOR Rwy 26
 Categories A, B, 900-2; Category C, 900-2¾;
 Category D, 900-3.

HELENA, MT

HELENA RGNL ILS or LOC Y Rwy 27¹²
 ILS or LOC Z Rwy 27¹²
 LOC/DME BC-C¹³
 NDB-D¹⁴
 RNAV (GPS) Y Rwy 9⁵
 RNAV (GPS) Rwy 23⁶
 RNAV (GPS) X Rwy 27⁵
 RNAV (RNP) Z Rwy 9⁷
 RNAV (RNP) Y Rwy 27⁷
 RNAV (RNP) Z Rwy 27⁷⁹
 VOR-A⁸
 VOR/DME-B⁶

¹NA when control tower closed.

²Categories A, B, 1600-2; Categories C, D, E,
 1600-3.

³Categories A, B, 1300-2; Categories C, D,
 1300-3.

⁴Category A, 1200-2.

⁵Categories A, B, 1600-2; Categories C, D,
 1600-3.

⁶Categories A, B, 900-2; Category C, 900-2¾;
 Category D, 900-3.

⁷NA when local weather not available.

⁸Categories A, B, 2900-2; Categories C, D,
 2900-3.

⁹1000-4.

NAME **ALTERNATE MINIMUMS**
HOQUIAM, WA
 BOWERMAN RNAV (GPS) Rwy 24¹
 VOR/DME Rwy 24²
 VOR Rwy 6¹

¹Category D, 800-2½.

²Categories A,B, 900-2; Category C, 900-2¾;
 Category D, 900-3.

IDAHO FALLS, ID
 IDAHO FALLS RGNL ILS or LOC Rwy 20¹
 LOC BC Rwy 2²
 RNAV (GPS) Rwy 20³
 VOR Rwy 20³

¹ILS, Category E, 700-2½. LOC, Category E,
 800-2½.

²Category E, 800-2½.

³NA when local weather not available.

JACKSON, WY
 JACKSON HOLE RNAV (GPS) X Rwy 1¹
 RNAV (GPS) Y Rwy 19¹
 RNAV (RNP) Y Rwy 1, 10681200-4
 VOR/DME Rwy 1²
 VOR/DME Rwy 19³

¹Categories A,B, 1200-2; Categories C,D,
 1200-3.

²Categories A,B,1000-2; Categories C,D,
 1000-3.

³Categories A,B,1400-2; Categories C,D,
 1400-3.

JEROME, ID
 JEROME COUNTY RNAV (GPS) Rwy 9
 RNAV (GPS) Rwy 27¹
 VOR/DME-A

NA when local weather not available.

¹Categories A, B, 1300-2; Categories C, D,
 1300-3.

JOHN DAY, OR
 GRANT COUNTY RGNL/
 OGILVIE FIELD RNAV (GPS) Y Rwy 9
 Category B, 900-2; Category C, 900-2½.

KALISPELL, MT
 GLACIER PARK INTL ILS or LOC Rwy 2¹
 RNAV (RNP) Y Rwy 2²
 RNAV (RNP) Rwy 20, 800-2½²

¹Categories C, D, 700-2.

²NA when local weather not available.

KELSO, WA
 SOUTHWEST
 WASHINGTON RGNL RNAV (GPS) Rwy 12
 Categories A, B, 900-2.

NAME **ALTERNATE MINIMUMS**
KLAMATH FALLS, OR
 KLAMATH FALLS ILS or LOC Rwy 32¹
 RNAV (GPS) Rwy 14²
 VOR/DME or TACAN Rwy 14³
 VOR/DME or TACAN Rwy 32⁴
 VOR or GPS-B,2100-3

¹Categories A,B, 900-2; Category C, 900-2¾;
 Category D, 1000-3. LOC, DME required.

²Categories A,B, 900-2; Category C, 900-2¾;
 Category D, 1000-3.

³Categories C,D, 1000-3; Category E, NA.

⁴Category B, 900-2; Categories C,D, 1000-3;
 Category E, 1500-3.

LAKEVIEW, OR
 LAKE COUNTY VOR/DME-A
 Categories A,B, 900-2; Category C, 900-2½;
 Category D, 900-2¾.

LEWISTON, ID
 LEWISTON-NEZ PERCE
 COUNTY ILS Rwy 26¹²
 RNAV (GPS) Y Rwy 8³
 RNAV (GPS) Y Rwy 12³
 RNAV (GPS) Y Rwy 26³
 RNAV (RNP) Rwy 30⁴
 RNAV (RNP) Z Rwy 8⁴
 RNAV (RNP) Z Rwy 12⁴
 RNAV (RNP) Z Rwy 26⁴
 VOR Rwy 8⁵
 VOR Rwy 26³

¹ILS, Category D, 800-2½.

²NA when control tower closed.

³Category D, 800-2½.

⁴NA when local weather not available.

⁵Categories A, B, 1100-2; Categories C, D,
 1100-3.

LEWISTOWN, MT
 LEWISTOWN MUNI RNAV (GPS) Rwy 7
 VOR Rwy 7

Category D, 800-2½.

LIVINGSTON, MT
 MISSION FIELD VOR/DME-B¹
 VOR-A²

¹Categories A, B, 900-2; Category C, 900-2½;
 Category D, 1000-3.

²Categories A, B, 2200-2; Categories C,D,
 2200-3.

NAME ALTERNATE MINIMUMS

MC CALL, ID

MC CALL MUNI RNAV (GPS) Rwy 16¹
RNAV (GPS) Y Rwy 34²
RNAV (GPS) Z Rwy 34³⁴

¹Category C, 900-2½.

²Categories A, B, 1600-2; Categories C, D, 1600-3.

³NA when local weather not available.

⁴Category C, 900-2½; Category D, 1000-3.

MC MINNVILLE, OR

MC MINNVILLE MUNI ILS or LOC Rwy 22
RNAV (GPS) Rwy 4
RNAV (GPS) Rwy 22
VOR/DME-B

NA when local weather not available.

Category D 800-2¼.

MEDFORD, OR

ROGUE VALLEY INTL-
MEDFORD ILS or LOC/DME Rwy 14¹²
LOC/DME BC-B²³
RNAV (GPS)-D³
RNAV (GPS) Rwy 14⁴
VOR-A⁵
VOR/DME-C³
VOR/DME Rwy 14⁵

¹ILS, Categories A, B, C, 700-2; Category D, 900-2½. LOC, Category D, 900-2½.

²NA when control tower closed.

³Categories A, B, 2300-2; Categories C, D, 2300-3.

⁴Categories A, B, 1100-2; Categories C, D, 1100-3.

⁵Categories A, B, 1400-2; Category C, D, 1400-3.

MISSOULA, MT

MISSOULA INTL ILS Rwy 11¹
RNAV (GPS) Y Rwy 11²³
RNAV (RNP) Z Rwy 11², 800-2½
VOR/DME or GPS-A, 2000-3
VOR/DME or GPS-B, 2000-3

¹ILS, 1600-6. LOC, NA.

²NA when local weather not available.

³Categories A, B, 1900-2; Categories C, D, 1900-3.

NAME ALTERNATE MINIMUMS

MOSES LAKE, WA

GRANT COUNTY INTL ... ILS or LOC Rwy 32R¹
NDB Rwy 32R²
RNAV (GPS) Rwy 4¹
RNAV (GPS) Rwy 14L¹
RNAV (GPS) Rwy 22¹
VOR Rwy 4²
VOR -1 Rwy 14L²
VOR -3 Rwy 14L²
VOR Rwy 22²
VOR Rwy 32R²

¹NA when local weather not available.

²NA when control tower closed.

NEWCASTLE, WY

MONDELL FIELD VOR or GPS Rwy 31
NA except for operators with approved weather reporting service.
Categories A, B, 900-2; Categories C, D, 900-3.

NORTH BEND, OR

SOUTHWEST OREGON
RGNL ILS or LOC Rwy 4¹
NDB or GPS Rwy 4²
VOR or GPS-A³
VOR/DME or GPS-B⁴
VOR/DME Rwy 4⁴

¹ILS, Categories A, B, 800-2; Category C, 900-2¼, Category D, 1000-3. LOC, Category C, 900-2¼, Category D, 1000-3.

²Category C, 900-2¼; Category D, 1000-3.

³Categories A, B, 1100-2; Categories C, D, 1100-3.

⁴Categories C, D, 1000-3.

OAK HARBOR, WA

AJ EISENBERG RNAV (GPS) Rwy 7
NA when local weather not available.

OLYMPIA, WA

OLYMPIA RGNL ILS or LOC Rwy 17¹²³
RNAV (GPS) Rwy 17²
RNAV (GPS) Rwy 35²
VOR-A²⁴
VOR/DME Rwy 35²

¹ILS, Categories C, D, 700-2.

²NA when local weather not available.

³NA when control tower closed.

⁴Category D, 800-2¼.

ONTARIO, OR

ONTARIO MUNI RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32

NA when local weather not available.

NAME ALTERNATE MINIMUMS

PASCO, WA

TRI-CITIES ILS or LOC Rwy 21R¹²
 RNAV (GPS) Rwy 3L
 RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 21R
 RNAV (GPS) Rwy 30
 VOR Rwy 21R³
 VOR/DME Rwy 30

NA when local weather not available.

¹NA when control tower closed.

²ILS, Categories A,B,C, 700-2; Category D,
 700-2½. LOC, Category D, 800-2½.

³Category D, 800-2½.

PENDLETON, OR

EASTERN OREGON RGNL AT

PENDLETON ILS or LOC/DME Rwy 25¹
 RNAV (GPS) Rwy 7
 RNAV (GPS) Rwy 11
 RNAV (GPS) Rwy 25
 RNAV (GPS) Rwy 29
 VOR Rwy 7

NA when local weather not available.

¹ILS, NA when control tower closed.

PINEDALE, WY

PINEDALE/RALPH WENZ

FIELD NDB-A¹
 RNAV (GPS) Rwy 11²
 RNAV (GPS) Rwy 29²

NA when local weather not available.

¹Category C, 800-2½; Category D, 800-2½.

²Category D, 800-2½.

POCATELLO, ID

POCATELLO RGNL ILS or LOC Rwy 21¹
 RNAV (GPS) Rwy 3²
 RNAV (GPS) Rwy 21²

¹NA when control zone not in effect.

²NA when local weather not available.

PORT ANGELES, WA

WILLIAM R

FAIRCHILD INTL ILS or LOC Rwy 8
 RNAV (GPS) Rwy 8¹
 RNAV (GPS) Rwy 26

NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D,
 1000-3.

NAME ALTERNATE MINIMUMS

PORTLAND, OR

PORTLAND INTL ILS or LOC Rwy 10L¹
 ILS or LOC Rwy 10R²
 ILS or LOC Rwy 28L³
 ILS or LOC Rwy 28R⁴
 LOC/DME Rwy 21⁵
 RNAV (GPS) Rwy 10L⁵
 RNAV (GPS) Rwy 10R⁵
 RNAV (GPS) Rwy 12⁷
 RNAV (GPS) Rwy 28L⁸
 RNAV (GPS) Rwy 28R⁸
 VOR/DME Rwy 21⁵
 VOR-A⁹
 VOR Rwy 28R⁵

¹ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.

²Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3; Category E, 1100-3.

³ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3; Category E, 1100-3. LOC, Category D, 1000-3; Category E, 1100-3.

⁴ILS, Category A, 700-2; Categories B,C, 800-2; Category D, 1000-3. LOC, Category D, 1000-3.

⁵Category D, 1000-3.

⁶Categories A,B,C 800-5; Category D, 1000-5.

⁷NA when local weather not available.

⁸Category D, 1000-3.

⁹Categories A,B, 900-2; Category C, 900-2½; Category D, 1000-3.

PORTLAND-HILLSBORO .. ILS or LOC Rwy 12¹
 RNAV (GPS) Rwy 12
 RNAV (GPS) Rwy 30

NA when local weather not available.

¹Categories A, B, 1500-2; Categories C, D, 1500-3.

PORTLAND-TROUTDALE NDB or GPS-A
 Categories A,B, 1100-2; Category C, 1100-3;
 Category D, 1300-3.

PULLMAN/MOSCOW, WA

PULLMAN/MOSCOW

MUNI RNAV (GPS) Rwy 5,800-2½

RAWLINS, WY

RAWLINS MUNI/

HARVEY FIELD RNAV (GPS) Rwy 22¹
 VOR/DME Rwy 22²

¹Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2½.

²Categories A, B, 1000-2; Category C, 1000-2½; Category D, 1000-3.

NAME ALTERNATE MINIMUMS

REDMOND, OR

ROBERTS FIELD ILS or LOC Rwy 22¹
VOR/DME Rwy 22²

¹ILS, LOC, Category D, 800-2½; Category E, 800-2½.

²Category A, B, 1000-2; Category C, 1000-2¾; Category D, E, 1000-3.

RENTON, WA

RENTON MUNI NDB Rwy 16¹
RNAV (GPS) Y Rwy 16²
RNAV (GPS) Z Rwy 16³

NA when local weather not available.

¹Categories A, B, 1000-2; Categories C, D, 1000-3.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

³Categories A, B, 900-2.

REXBURG, ID

REXBURG-MADISON
COUNTY RNAV (GPS) Rwy 35
NA when local weather not available.
Category D, 800-2½.

RICHLAND, WA

RICHLAND NDB Rwy 19¹
RNAV (GPS) Rwy 19¹
RNAV (GPS) Rwy 26¹
VOR/DME-A²
VOR Rwy 26¹

¹Category D, 800-2½.

²Categories A, B, 900-2; Category C, 900-2¾; Category D, 900-3.

RIVERTON, WY

RIVERTON RGNL ILS or LOC Rwy 28
RNAV (GPS) Rwy 10
RNAV (GPS) Rwy 28
VOR Rwy 10
VOR Rwy 28

NA when local weather not available.

ROSEBURG, OR

ROSEBURG RGNL RNAV (GPS)-B
NA when local weather not available.
Categories A, B, 1200-2; Category C, 1200-3;
Category D, 1400-3.

SALEM, OR

MCNARY FIELD ILS or LOC Rwy 31¹²
LOC/DME Rwy 31³
RNAV (GPS) Rwy 31¹³

¹NA when local weather not available.

²ILS, Categories A, B, 800-2; Category C, 800-2¾; Category D, 800-2½. LOC, Category C, 800-2¾; Category D, 800-2½.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL
AIRPARK VOR/DME or GPS-A
Category B, 900-2; Category C, 1000-2¾;
Category D 1300-3.

SEATTLE, WA

BOEING FIELD-KING COUNTY
INTL ILS Rwy 13R¹
ILS Rwy 31L²
LOC/DME Rwy 13R³
RNAV (GPS) Y Rwy 13R⁴
RNAV (RNP) Z Rwy 13R⁵

¹ILS, Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

²Category A, 800-2; Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

³Category B, 900-2; Category C, 900-2½; Category D, 1000-3.

⁴Category B, 900-2; Category C, 900-2¾; Category D, 1000-3.

⁵Categories A, B, C, D, 800-2½.

SHERIDAN, WY

SHERIDAN
COUNTY ILS or LOC/DME Rwy 32
RNAV (GPS) Rwy 14
RNAV (GPS) Rwy 32
VOR Rwy 14

NA when local weather not received.
Category D, 800-2½.

SIDNEY, MT

SIDNEY-RICHLAND MUNI NDB Rwy 1¹
NDB Rwy 19²
RNAV (GPS) Rwy 1³
RNAV (GPS) Rwy 19³

NA when local weather not available.

¹Categories A, B, 900-2; Category C, 900-2½; Category D, 900-2¾.

²Categories A, B, 1000-2; Category C, 1000-2¾; Category D, 1000-3.

³Category D, 800-2½.

NAME ALTERNATE MINIMUMS

SPOKANE, WA

FELTS FIELD ILS/DME Rwy 21R¹
RNAV (GPS)-A²
RNAV (GPS) Rwy 3L²
VOR Rwy 3L^{3,4}

- ¹Categories A,B, 1000-2; Category C, 1000-2½.
²Categories A,B, 1000-2; Category C, 1000-2½; Category D, 1000-3.
³Categories A, B, 1000-2; Categories C, D, 1000-3.
⁴NA when local weather not available.

SPOKANE INTL ILS or LOC Rwy 3¹
ILS or LOC/DME Rwy 21¹
RNAV (GPS) Rwy 3²
VOR Rwy 3³

- ¹ILS, Category D, 700-2.
²Category D, 800-2½.
³Category E, 800-2½.

TACOMA, WA

TACOMA NARROWS ILS Rwy 17¹
NDB Rwy 35¹
RNAV (GPS) Rwy 17^{1,2}
RNAV (GPS) Rwy 35^{2,3}

- ¹NA when control tower closed.
²Category D, 800-2½.
³NA when local weather not available.

THE DALLES, OR

COLUMBIA GEORGE RGNL/
THE DALLES MUNI RNAV (GPS)-A
Categories A,B, 1100-2; Category C, 1100-3;
Category D, 1200-3.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY
RGNL ILS or LOC Rwy 25¹
NDB Rwy 25
RNAV (GPS) Rwy 7
RNAV (GPS) Rwy 25
VOR Rwy 7²

- NA when local weather not available.
¹ILS, Category D, 700-2; Category E, 900-3.
LOC, Category E, 900-3.
²Category C, 800-2½; Category D, 800-2½.

NAME ALTERNATE MINIMUMS

WALLA WALLA, WA

WALLA WALLA RGNL ILS or LOC Rwy 20¹
NDB Rwy 20, 1000-3
RNAV (GPS) Rwy 2^{2,3}
RNAV (GPS) Rwy 16²
RNAV (GPS) Rwy 20²
VOR/DME Rwy 2²

- ¹ILS, LOC, Categories A,B, 1100-2; Categories C, D, 1100-3.
²Category D, 800-2½.
³NA when local weather not available.

WENATCHEE, WA

PANGBORN
MEMORIAL ILS Y Rwy 12, 1300-4
VOR/DME-C^{1,2}
VOR/DME-A³

- ¹NA when local weather not available.
²Categories A, B, 1500-2; Categories C, D, 1500-3.
³Categories A, B, 2000-2; Categories C, D, 2000-3.

WOLF POINT, MT

L.M. CLAYTON RNAV (GPS) Rwy 11
RNAV (GPS) Rwy 29

NA when local weather not available.

WORLAND, WY

WORLAND MUNI VOR or GPS Rwy 16
Categories C,D, 800-2½.

YAKIMA, WA

YAKIMA AIR TERMINAL/
MCALLISTER FIELD ILS Y Rwy 27^{1,2}
ILS Z Rwy 27^{1,3}
LOC/DME BC-B^{1,4}
RNAV (GPS) Y Rwy 27⁵
RNAV (GPS) Z Rwy 27⁴
VOR/DME or TACAN Rwy 27⁶
VOR-A⁷

- ¹NA when control tower closed.
²ILS, Categories A, B, 600-2½; Category C, 700-2½; Category D, 800-2½.
³Category C, 700-2; Category D, 800-2½
⁴Category D, 800-2½.
⁵Category C, 800-2½; Category D, 800-2½.
⁶Categories A, B, 1100-2; Categories C, D, 1100-3.
⁷Category C, 800-2½; Category D, 800-2½.



RADAR INSTRUMENT APPROACH MINIMUMS

CHEYENNE, WY

Amdt 1B, MAY 8, 2008 (FAA)

ELEV 6159

CHEYENNE RGNL/JERRY OLSON FIELD



RADAR - 124.55 263.075   NA

				DA/ MDA-VIS	HAT/ HATH/ HAA CEIL-VIS		DA/ MDA-VIS	HAT/ HATH/ HAA CEIL-VIS
PAR	27	3.0°/55/918	ABCDE	6321/24	200 (200-½)			
ASR	9		ABC	6500-1	357 (400-1)	DE	6500-1¼	357 (400-1¼)
	27		ABC	6520/24	399 (400-½)	DE	6520/50	399 (400-1)
CIR	ALL		AB	6660-1	501 (600-1)	C	6660-1½	501 (600-1½)
			D	6720-2	561 (600-2)	E	6960-2¾	801 (900-2¾)

For inoperative MALSR increase, PAR 27 category E visibility to RVR 4000, ASR 27 category D visibility to RVR 6000 and ASR 27 category E visibility to 1½. PAR not available when ASR out of service.

GRAY AAF (KGRF), FORT LEWIS, WA (Amdt 1 10098 USA)

ELEV 300

RADAR - (E) 128.2 139.925 239.0 317.4   NA

	RWY	GS/TCH/RPI	CAT	DH/ MDA-VIS	HAT/ HATH/ HAA	CEIL-VIS
PAR ¹³	15	3.0°/55/853	ABCD	499/24	200	(200-½)
	33 ²	3.0°/39/730	ABCD	500-½	200	(200-½)

¹Opr Mon-Fri 1600-0759Z++, exc federal holidays. POC DSN 357-4953 or C253-967-4953. Svc incl PAR and apch mnt of ILS and NDB. ²PAR not authorized when R6703D is active. ³Circling not authorized.

OPS 138.6

Contact Seattle approach for vectors to Final on 120.1 290.9

Missed Approach:

Rwy 15: Climb to 1000, then climbing left turn to 2000 via heading 270° for RADAR vectors; or when directed by ATC, climb to 1000, then climbing left turn to 2000 direct GRF NDB and hold NW, RT, 147° inbound (ADF REQUIRED).

Rwy 33: Climb to 1000, then climbing left turn to 2000 via heading 270° for RADAR vectors; or when directed by ATC, climb to 2000 direct GRF NDB and hold NW, RT, 147° inbound (ADF REQUIRED). LOST COMMUNICATIONS (ALL RWYS): As directed by ATC on initial contact.

RADAR INSTRUMENT APPROACH MINIMUMS**OAK HARBOR (OKH), WA**

Amdt 1A, Mar 12, 2009 (FAA)

ELEV 193**A J EISENBERG****RADAR - 118.2 285.65 ▽ ▲ NA**

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DA/ MDA-VIS</u>	<u>HAT/ HATH/ HAA</u>	<u>CEIL-VIS</u>
ASR	7		AB CD	620-1 NA	427	(500-1)
CIR	All Rwy		A B CD	620-1 660-1 NA	427 467	(500-1) (500-1)

When local altimeter setting not received, use Whidbey Island NAS altimeter setting and increase all MDAs 40 feet. Circling north of Rwy 7-25 NA at night. Visibility reduction by helicopters NA.

RADAR INSTRUMENT APPROACH MINIMUMS

WHIDBEY ISLAND NAS (KNUW), (AULT FLD) WA (09071 USN)

ELEV 47

RADAR - (E) 126.05x 126.85x 266.8x 299.6x 310.8x 322.5x 327.0x 343.75x ▽

	<u>RWY</u>	<u>GS/TCH/RPI</u>	<u>CAT</u>	<u>DH/</u> <u>MDA-VIS</u>	<u>HAT/</u> <u>HATH/</u> <u>HAA</u>	<u>CEIL-VIS</u>
PAR ¹	25 ^{2 3 10}	3.0°/40/718	ABCDE	228-½	200	(200-½)
	14 ^{5 11}	3.0°/49/947	ABCDE	139-¼	100	(100-¼)
	7	3.0°/50/961	ABCDE	125-½	100	(100-½)
	32 ^{2 10}	3.0°/34/776	ABCDE	147-¼	100	(100-¼)
W/O GS	25 ^{3 6}		ABC	480-¾	452	(500-¾)
			DE	480-1	452	(500-1)
	14 ^{7 11}		AB	340-½	301	(300-½)
			CDE	340-¾	301	(300-¾)
	7		ABCDE	300-1	275	(300-1)
	32 ^{8 10}		ABC	500-¾	453	(500-¾)
			DE	500-1	453	(500-1)
ASR	7		AB	440-1	415	(400-1)
			CD	440-1¼	415	(400-1¼)
			E	440-1½	415	(400-1½)
	14 ^{4 11}		AB	600-½	561	(600-½)
			C	600-1	561	(600-1)
			D	600-1¼	561	(600-1¼)
			E	600-1½	561	(600-1½)
	32 ^{8 11}		AB	680-½	633	(700-½)
			C	680-1¼	633	(700-1¼)
			D	680-1½	633	(700-1½)
			E	680-1¾	633	(700-1¾)
	25 ⁴		AB	760-½	732	(800-½)
			C	760-1½	732	(800-1½)
			D	760-1¾	732	(800-1¾)
			E	760-2	732	(800-2)
CIR ⁹			A	780-1	733	(800-1)
			B	800-1¼	753	(800-1¼)
			C	800-2¼	753	(800-2¼)
			D	860-2¾	813	(900-2¾)
			E	1100-3	1053	(1100-3)

¹No-NOTAM MP: PAR 1600-0800Z++ Mon. ²When ALS inop, increase vis CAT ABCDE to ¾ mile.

³Caution: Trees 265' MSL, 3270' from THLD, 1647' right of RCL. ⁴When ALS inop, increase vis CAT AB to 1 mile, CAT C to 1¼ miles, CAT D to 2 miles, CAT E to 2¼ miles. ⁵When ALS inop, increase CAT ABCDE vis to ½ mile. ⁶When ALS inop, increase vis CAT ABC to 1¼ miles, CAT DE to 1½ miles. ⁷When ALS inop, increase vis CAT ABCDE to 1 mile. ⁸When ALS inop, increase vis CAT ABC to 1¼ mile, CAT DE to 1½ mile. ⁹When CIRCLING to RWY 25 or 32, increase vis CAT A to 1¼ mile. ¹⁰Amdt 2. ¹¹Amdt 1.

INSTRUMENT APPROACH PROCEDURE CHARTS

IFR TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES

Civil Airports and Selected Military Airports

ALL USERS: Airports that have Departure Procedures (DPs) designed specifically to assist pilots in avoiding obstacles during the climb to the minimum enroute altitude, and/or airports that have civil IFR take-off minimums other than standard, are listed below. Take-off Minimums and Departure Procedures apply to all runways unless otherwise specified. Altitudes, unless otherwise indicated, are minimum altitudes in MSL.

DPs specifically designed for obstacle avoidance are referred to as Obstacle Departure Procedures (ODPs) and are described below in text, or published separately as a graphic procedure. If the (Obstacle) DP is published as a graphic procedure, its name will be listed below, and it can be found in either this volume (civil), or a separate Departure Procedure volume (military), as appropriate. Users will recognize graphic obstacle DPs by the term "(OBSTACLE)" included in the procedure title; e.g., TETON TWO (OBSTACLE). If not assigned a SID or radar vector by ATC, an ODP may be flown without ATC clearance to ensure obstacle clearance.

Graphic DPs designed by ATC to standardize traffic flows, ensure aircraft separation and enhance capacity are referred to as "Standard Instrument Departures (SIDs)". SIDs also provide obstacle clearance and are published under the appropriate airport section. ATC clearance must be received prior to flying a SID.

CIVIL USERS NOTE: Title 14 Code of Federal Regulations Part 91 prescribes standard take-off rules and establishes take-off minimums for certain operators as follows: (1) Aircraft having two engines or less - one statute mile. (2) Aircraft having more than two engines - one-half statute mile. These standard minima apply in the absence of any different minima listed below.

MILITARY USERS NOTE: Civil (nonstandard) take-off minima are published below. For military take-off minima, refer to appropriate service directives.

NAME TAKE-OFF MINIMUMS

AFTON, WY

AFTON MUNI

DEPARTURE PROCEDURE: **Rwy 16**, Use LUNDI DEPARTURE. **Rwy 34**, use AFTON DEPARTURE.

ALBANY, OR

ALBANY MUNI

DEPARTURE PROCEDURE: **Rwy 16**, turn right.

Rwy 34, turn left. All aircraft climb direct CVO VOR/DME and continue climb in CVO VOR/DME holding pattern, (E, right turns, 261° inbound) to cross CVO VOR/DME at or above 3000.

ANACONDA, MT

BOWMAN FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, std. w/min. climb of 417' per NM to 9000, or 2800-3 for climb in visual conditions. **Rwy 17**, std. w/min. climb of 321' per NM to 10200, or 2800-3 for climb in visual conditions. **Rwy 22**, NA-obstacles. **Rwy 35**, std. w/min. climb of 369' per NM to 9100, or 2800-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 4, 35**, climbing right turn to 10200 via heading 130° and CPN VOR/DME R-340 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NAME TAKE-OFF MINIMUMS

BOWMAN FIELD(CON'T)

Rwy 17, climbing left turn to 10200 via heading 100° and CPN VOR/DME R-335 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound), or for climb in visual conditions, cross Bowman Field Airport at or above 7700 then proceed via CPN R-309 to CPN VOR/DME, continue climb-in-hold to 10200 (north, left turn, 166° inbound).

NOTE: **Rwy 17**, multiple trees beginning 865' from departure end of runway, 243' left of centerline, up to 70' AGL/5097' MSL. Rod on hangar 570' from departure end of runway, 278' left of centerline, 54' AGL/5054' MSL. Multiple trees beginning 787' from departure end of runway, 165' right of centerline, up to 70' AGL/5098' MSL. Multiple transmission lines beginning 4602' from departure end of runway, 1664' right of centerline, 80' AGL/5159' MSL. **Rwy 35**, multiple transmission lines beginning 2242' from departure end of runway, 964' left of centerline, up to 80' AGL/5159' MSL.

ARCO, ID

ARCO-BUTTE COUNTY (AOC)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6**, NA - Obstacles. DEPARTURE PROCEDURE: Use JATTS DEPARTURE.

ARLINGTON, WA

ARLINGTON MUNI

TAKE-OFF MINIMUMS: **Rwy 11**, 600-2 or std. with a min. climb of 350' per NM to 700. **Rwy 34**, 500-2 or std. with a min. climb of 260' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 11**, turn right.

Rwy 16, climb direct to WATON LOM. **Rwys 29, 34**, turn left. **All aircraft** climb direct to WATON LOM. Aircraft departing WATON LOM on bearings 150° CW 200° and bearings 260° CW 340° from WATON LOM continue climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 4500 then continue climb on course. Aircraft departing WATON LOM on bearings 200° CW 260° from WATON LOM climb in holding pattern (S, left turns, 339° inbound) to 1500 then continue climb on course.

ASTORIA, OR

ASTORIA RGNL

TAKE-OFF MINIMUMS: **Rwy 8**, 800-3 or std. with a min. climb of 320' per NM to 900. **Rwy 13**, 700-2 or std. with a min. climb of 350' per NM to 800.

DEPARTURE PROCEDURE: **Rwys 8, 31**, turn left.

Rwy 13, climb runway heading to 800 then climbing right turn. **Rwy 26**, turn right. Aircraft departing northwestbound climb via AST R-290 on course.

All other aircraft climb to 1500 or above via AST R-290 then left turn to AST VOR/DME and continue climbing on course.

AUBURN, WA

AUBURN MUNI

DEPARTURE PROCEDURE: Use AUBURN DEPARTURE.

AURORA, OR

AURORA STATE

DEPARTURE PROCEDURE: **Rwy 17**, turn right,

thence... **Rwy 35**, turn left, thence...

...Aircraft proceeding via V23 climb on course; All others climb in UBG VOR/DME holding pattern (hold south, left turn, 003° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight.

NOTE: **Rwy 17**, multiple trees 31' from departure end of runway, 273' right of centerline, up to 90' AGL/270' MSL.

Multiple trees beginning 979' from departure end of runway, 247' right of centerline up to 113' AGL/316' MSL. Road 254' from departure end of runway, 350' left of centerline, 16' AGL/209' MSL. **Rwy 35**, multiple trees and road beginning 31' from departure end of runway, 163' left of centerline, up to 138' AGL/329' MSL.

Multiple trees beginning 973' from departure end of runway, 281' right of centerline, up to 58' AGL/253' MSL.

BAKER, MT

BAKER MUNI

NOTE: **Rwy 13**, 51' derrick 2200' from departure end of runway on centerline. 100' trees south of airport, near runway, various locations. **Rwy 31**, 146' antenna on tower 4000' from departure end of runway, 1800' left of centerline. 114' rod on OL antenna 3800' from departure end of runway on centerline.

BAKER CITY, OR

BAKER CITY MUNI

TAKE-OFF MINIMUMS: **Rwy 8**, 900-2 or std. with a min. climb of 315' per NM to 6000, (788' per min. at 150K, 1050' per min. at 200K, 1313' per min. at 250K).

Rwy 13, 1400-2 or std. with a min. climb of 310' per NM to 6000 (775' per min. at 150K, 1033' per min. at 200K, 1292' per min. at 250K). **Rwy 17, NA. Rwy 31**, 1300-2 or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K). **Rwy 35**, CAT C, D 1000-2; or std. with a min. climb of 240' per NM to 6000 (600' per min. at 150K, 800' per min. at 200K, 1000' per min. at 250K).

DEPARTURE PROCEDURE: **Rwys 8, 13**, turn left.

Rwys 26, 31, 35, turn right. **All aircraft** climb direct BKE VOR/DME. Continue climb in BKE holding pattern (SE, right turns, 298° inbound) to cross BKE VOR/DME at or above MCA or MEA for route of flight.

BELLINGHAM, WA

BELLINGHAM INTL

DEPARTURE PROCEDURE: **Rwy 16**, climb heading 160° to 600, then climbing right turn direct HUH VORTAC. Do not exceed 210 KIAS until established northbound. **Rwy 34**, climb heading 340° to 600, then climbing left turn to intercept HUH R-145 to HUH VORTAC, continue climb in holding pattern (northwest, right turn, 149° inbound) to MEA as appropriate for direction of flight.

NOTE: **Rwy 16**, lighted windsock 9' from departure end of runway, 259' right of centerline, 16' AGL/181' MSL.

Multiple trees beginning 747' from departure end of runway, 405' right of centerline, up to 68' AGL/213' MSL.

Multiple trees beginning 1128' from departure end of runway, 57' left of centerline, up to 104' AGL/249' MSL.

Rwy 34, lighted windsock 93' from departure end of runway, 516' right of centerline, 27' AGL/169' MSL. Multiple trees beginning 1372' from departure end of runway, 619' right of centerline, up to 134' AGL/246' MSL.

BEND, OR

BEND MUNI (BDN)

AMDT 4 09183 (FAA)

DEPARTURE PROCEDURE: Use BEND DEPARTURE.

BIG PINEY, WY

MILEY MEMORIAL FIELD

TAKE-OFF MINIMUMS: **Rwys 8, 26**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, climb to 8400 via BPI R-124. **Rwy 31**, climb to 10800 via BPI R-320 thence all aircraft climb on course.

BILLINGS, MT

BILLINGS LOGAN INTL (BIL)
AMDT 5 08101 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10R**, NA- Obstacles.
DEPARTURE PROCEDURE: **Rwy 10L**, Climb heading
098° to 4600 before turning right.

NOTE: **Rwy 10L**, fence 466' from departure end of
runway, 535' right of centerline, 11' AGL/3511' MSL,
cars on road, beginning from 624' from departure end of
runway, 427' right of centerline, 15' AGL/3523' MSL,
ground beginning 21' from departure end of runway, 499'
right of centerline, 0' AGL/3505' MSL. **Rwy 25**, airport
security fence, abeam departure end of runway, 500' left
of centerline, 11' AGL/3672' MSL to 1200' from
departure end of runway, abeam rwy centerline, 11' AGL/
3672' MSL.

BLACKFOOT, ID

MCCARLEY FIELD

DEPARTURE PROCEDURE: **Rwy 1**, climb to 7000 (or
higher assigned altitude) direct IDA VOR/DME, before
proceeding on course. **Rwy 19**, climb to 7000 (or higher
assigned altitude) direct PIH VORTAC, before
proceeding on course.

BOISE, ID

BOISE AIR TERMINAL / GOWEN FIELD (BOI)
AMDT 6 10042 (FAA)

DEPARTURE PROCEDURE: Use GOWEN
DEPARTURE.

BOZEMAN, MT

GALLATIN FIELD (BZN)
AMDT 3 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA-ATC.
DEPARTURE PROCEDURE: **Rwys 12, 30**, use
BOZEMAN DEPARTURE.

BREMERTON, WA

BREMERTON NATIONAL (PWT)
AMDT 3 08045 (FAA)

TAKE-OFF MINIMUMS: **Rwy 1**, 300-1 or std. w/min.
climb of 410' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 1**, Climbing right
turn to 6000 direct CAN NDB, Thence... **Rwy 19**, Climb
to 6000 direct CAN NDB, thence...
...Continue climb-in-hold (S, LT, 013° inbound) to 6000
before proceeding on course.

NOTES: **Rwy 1**, Multiple bushes 380' from departure end
of runway, 522' left of centerline, up to 17' AGL/456'
MSL, multiple trees and poles beginning 1210' from
departure end of runway, 622' left of centerline, up to 100'
AGL/561' MSL, multiple trees and bushes 1012' from
departure end of runway, 708' right of centerline, up to
100' AGL/495' MSL. **Rwy 19**, Multiple trees beginning
176' from departure end of runway, 337' left of centerline,
up to 100' AGL/514' MSL, multiple trees beginning 371'
from departure end of runway, 277' right of centerline, up
to 100' AGL/548' MSL.

BUFFALO, WY

JOHNSON COUNTY

TAKE-OFF MINIMUMS: Northbound aircraft:

Rwys 13, 31, 2400-2 or std. with a min. climb of 300' per
NM to 7500. Southbound aircraft: **Rwy 31**, 400-2 or std.
with a min climb of 300' per NM to 6000.

DEPARTURE PROCEDURE: Northbound aircraft:

Rwy 13, turn left. **Rwy 31**, climb straight ahead.

All aircraft proceed via SHR R-139 to SHR VORTAC.
Southbound aircraft: **Rwy 13**, climb straight ahead.

Rwy 31, turn right. **All aircraft** proceed via CZI R-319 to
CZI VOR/DME.

BURLEY, ID

BURLEY MUNI (BYI)

AMDT 5 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 24**, 300-1½ or std. w/min.
climb of 428' per NM to 4500.

DEPARTURE PROCEDURE: **Rwy 2**, climbing left turn
direct BYI VOR/DME, continue climb in BYI VOR/DME
holding pattern (hold Northwest right turns, 125°
inbound) to cross BYI VOR/DME at or above MEA for
route of flight. **Rwy 6**, climbing left turn direct BYI VOR/
DME, continue climb in BYI VOR/DME holding pattern
(hold Northwest right turns, 125° inbound) to cross BYI
VOR/DME at or above MEA for route of flight. **Rwy 20**,
climbing right turn direct BYI VOR/DME, continue climb
in BYI VOR/DME holding pattern (hold Northwest right
turns, 125° inbound) to cross BYI VOR/DME at or above
MEA for route of flight. **Rwy 24**, climbing right turn
direct BYI VOR/DME, continue climb in BYI VOR/DME
holding pattern (hold Northwest right turns, 125°
inbound) to cross BYI VOR/DME at or above MEA for
route of flight.

NOTE: **Rwy 2**, obstruction light on bridge 252' from DER,
513' left of centerline, 57' AGL/4195' MSL. Trees
beginning 686' from DER, 201' right of centerline, up to
35' AGL/4184' MSL. Tree 694' from DER, 375' left of
centerline, 29' AGL/4178' MSL. Obstruction light on
building 736' from DER, 188' left of centerline, 11' AGL/
4161' MSL. Tower 803' from DER, 590' left of centerline,
55' AGL/4204' MSL. Vehicles on road beginning 857'
from DER, 1' right of centerline, up to 17' AGL/4168'
MSL. Poles beginning 1226' from DER, 549' left of
centerline, up to 72' AGL/4222' MSL. Building vent 1240'
from DER, 164' left of centerline, 27' AGL/4177' MSL.
Stack 2206' from DER, 856' right of centerline, 86' AGL/
4236' MSL. Stack 2573' from DER, 614' left of
centerline, 86' AGL/4236' MSL. Elevators beginning
3980' from DER, 131' right of centerline, up to 133' AGL/
4283' MSL. **Rwy 6**, trees beginning 46' from DER, 172'
right of centerline, up to 14' AGL/4163' MSL. Rising
terrain beginning 49' from DER, 326' right of centerline,
up to 4149' MSL. Bush 150' from DER, 103' right of
centerline, 5' AGL/4147' MSL. Antenna 586' from DER,
398' left of centerline, 15' AGL/4165' MSL. Obstruction
light on bridge 1061' from DER, 80' right of centerline,
39' AGL/4179' MSL.

BURLEY MUNI (BYI) (CON'T)

Rwy 20, obstruction light pole 42' from DER, 124' left of centerline, 16' AGL/4170' MSL. Railroad beginning 65' from DER, 4' left of centerline, up to 23' AGL/4177' MSL. Sign 181' from DER, 121' right of centerline, 18' AGL/4172' MSL. Vehicles on road 162' from DER, 2' left of centerline, 17' AGL/4169' MSL. Vehicles on road beginning 335' from DER 348' right of centerline up to 17' AGL/4171' MSL. Pole 446' from DER, 210' right of centerline, 26' AGL/4180' MSL. Antenna 523' from DER, 337' right of centerline, 63' AGL/4217' MSL. Tree 586' from DER, 213' right of centerline, 28' AGL/4182' MSL. Trees beginning 2014' from DER, 339' left of centerline, up to 96' AGL/4251' MSL.

Rwy 24, vehicles on road beginning 25' from DER, 9' left of centerline, up to 15' AGL/4169' MSL. Fence 58' from DER, 8' left of centerline, 4' AGL/4154' MSL. Rising terrain beginning 69' from DER, 201' right of centerline, up to 4154' MSL. Railroad 152' from DER, 6' left of centerline, 23' AGL/4176' MSL. Trees beginning 427' from DER, 101' right of centerline, up to 69' AGL/4223' MSL. Vehicles on road beginning 509' from DER, 586' right of centerline, up to 15' AGL/4169' MSL. Railroad beginning 568' from DER, 288' right of centerline, up to 23' AGL/4177' MSL. Pole 735' from DER, 185' left of centerline, 18' AGL/4172' MSL. Light standard 824' from DER, 58' right of centerline, 23' AGL/4177' MSL. Antenna 1630' from DER, 112' left of centerline, 58' AGL/4212' MSL. Tower 2766' from DER, 175' left of centerline, 123' AGL/4282' MSL. Tower 3570' from DER, 158' right of centerline, 157' AGL/4312' MSL. Obstruction light on elevators beginning 3115' from DER, 164' left of centerline, up to 184' AGL/4344' MSL.

BURLINGTON/MOUNT VERNON, WA

SKAGIT RGNL (BVS)
ORIG-A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 3000-2 or std. with a min. climb of 340' per NM to 3600. **Rwy 10**, 1700-2 or std. with a min. climb of 245' per NM to 2300. **Rwy 22**, 1300-2 or std. with a min. climb of 210' per NM to 1800.

DEPARTURE PROCEDURE: **Rwys 4, 10, 22**, turn right heading 280°. **Rwy 28**, climb runway heading.

All aircraft climb to 2500 then turn right direct BVS NDB to cross BVS at or above 4500. Aircraft departing on BVS R-145 CWR-330 climb on course. All others continue climbing in BVS holding pattern (NW, right turns 113° inbound) to cross BVS at or above 6800 before proceeding on course.

NOTE: **Rwy 4**, tree 2581' from departure end of runway, 426' left of centerline, 100' AGL/212' MSL. Light pole 1489' from departure end of runway, 136' left of centerline 35' AGL/137' MSL. Bush 126' from departure end of runway, 430' right of centerline, 20' AGL/101' MSL. Building 2925' from departure end of runway, 130' left of centerline, 60' AGL/180' MSL.

BURNS, OR

BURNS MUNI

DEPARTURE PROCEDURE: **Rwy 3**, climbing right turn, thence... **Rwy 12**, climb to 4600 via heading 117°, thence... **Rwys 21, 30**, climbing left turn, thence...
...All aircraft departing on ILR R-072 CWR-209, climb on course. All others climb on ILR R-123 within 10 NM to cross ILR VOR/DME at or above 5000.

NOTE: **Rwy 21**, pole 820' from departure end of runway, 357' left of centerline, 20' AGL/4169' MSL.

BUTTE, MT

BERT MOONEY

TAKE-OFF MINIMUMS: **Rwy 11**, NA-obstacles. **Rwy 15**, std. w/ min. climb of 601' per NM to 7300, or 3300-3 for climb in visual conditions. **Rwy 29**, std. w/ min. climb of 832' per NM to 6700, or 3300-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 355' per NM to 6800, or 3300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15**, climbing right turn direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 29**, climb heading 293° to intercept CPN VOR/DME R-082 to CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence... **Rwy 33**, climb direct CPN VOR/DME, or for climb in visual conditions: Cross Bert Mooney Airport westbound at or above 8800 then proceed direct CPN VOR/DME, thence...

...climb in CPN VOR/DME holding pattern (hold north, left turn, 166° inbound) to cross CPN VOR/DME at or above MEA before proceeding enroute.

NOTE: **Rwy 15**, multiple trees beginning 2 NM from departure end of runway, 1779' right of centerline, up to 100' AGL/6659' MSL. Tree 2.1 NM from departure end of runway, 66' left of centerline, 100' AGL/5934' MSL.

Rwy 29, multiple trees and poles beginning 364' from departure end of runway, 7' right of centerline, up to 100' AGL/5621' MSL. Multiple trees and lights beginning 322' left of centerline, up to 100' AGL/5582' MSL. Terrain and numerous trees beginning 1.2 NM from departure end of runway, 1022' left of centerline, up to 100' AGL/6379' MSL. **Rwy 33**, flag pole 1095' from departure end of runway, 730' left of centerline, 64' AGL/5583' MSL.

CALDWELL, ID

CALDWELL INDUSTRIAL

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 300' per NM to 5600, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb via heading 119° to 5600 before proceeding on course. For climb in visual conditions: Cross Caldwell Industrial Airport at or above 4800 before proceeding on course. **Rwy 30**, climb via heading 299° to 4400 before proceeding on course.

NOTE: **Rwy 12**, levee 198' from departure end of runway, 281' left of centerline, 0' AGL/2451' MSL. Multiple trees 1462' from departure end of runway, 877' right of centerline, up to 100' AGL/2505' MSL. **Rwy 30**, multiple poles 206' from departure end of runway, 389' right of centerline, up to 39' AGL/2457' MSL. Rod 353' from departure end of runway, 246' right of centerline, 21' AGL/2439' MSL.

CASPER, WY

CASPER/NATRONA COUNTY INTL (CPR)
AMDT 3A 09155 (FAA)

DEPARTURE PROCEDURE: **Rwys 3,8,12**, turn left.

All other runways, turn right. **All aircraft** climb direct DDY VORTAC before proceeding on course, or comply with published Casper SIDs.

CHEHALIS, WA

CHEHALIS-CENTRALIA

DEPARTURE PROCEDURE: **Rwy 16**, climb to 1000 via heading 160° then climbing left turn to 4000 via heading 001° and OLM R-151 to OLM VORTAC before proceeding on course. **Rwy 34**, climb to 4000 via heading 340° and OLM R-176 to OLM VORTAC before proceeding on course.

CHEYENNE, WY

CHEYENNE RGNL/JERRY OLSON FIELD

NOTE: **Rwy 13**, multiple trees beginning 74' from departure end of runway, 115' left of centerline, up to 40' AGL/6166' MSL. Multiple trees, pole, and fence beginning 34' from departure end of runway, 167' right of centerline, up to 40' AGL/6154' MSL. **Rwy 27**, multiple trees and poles beginning 525' from departure end of runway, 271' left of centerline, up to 40' AGL/6216' MSL. Multiple trees and poles beginning 1222' from departure end of runway, 275' right of centerline, up to 40' AGL/6211' MSL. **Rwy 31**, multiple trees, road, fence and sign beginning 196' from departure end of runway, 76' left of centerline, up to 40' AGL/6238' MSL. Multiple poles and sign beginning 407' from departure end of runway, 8' left of centerline, up to 69' AGL/6229' MSL.

CODY, WY

YELLOWSTONE RGNL (COD)

AMDT 4 10042 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, std. with a min. climb of 400' per NM to 8000' or 4200-3 for climb in visual conditions. **Rwy 22**, std. with a min. climb of 385' per NM to 7400' or 4200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to 5900, then climbing left turn via COD R-171 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight. **Rwy 22**, climb heading 218° to 6600, then climbing left turn via COD R-180 to COD VOR/DME or for climb in visual conditions to cross Yellowstone Rgnl at or above 9400, then via COD R-189 to COD VOR/DME to cross COD VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 4**, trees beginning 100' from DER, 262' right of centerline, up to 79' AGL/5199' MSL. Rising terrain beginning 1723' from DER, 304' right of centerline, up to 5146' MSL. **Rwy 22**, poles beginning 1 NM from DER, 406' right of centerline, up to 60' AGL/5332' MSL. Rising terrain beginning 1 NM from DER, 109' right of centerline, up to 6235' MSL. Rising terrain beginning 5074' from DER, 131' left of centerline, up to 5428' MSL.

COEUR D'ALENE, ID

COEUR D'ALENE-PAPPY BOYINGTON FIELD
(COE)

AMDT 9 10042 (FAA)

DEPARTURE PROCEDURE: use COEUR D'ALENE DEPARTURE.

COLSTRIP, MT

COLSTRIP (M46)

AMDT 2 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 6** use CISPU (RNAV)

DEPARTURE. **Rwy 24**, use CONUK (RNAV)
DEPARTURE.

CONRAD, MT

CONRAD

DEPARTURE PROCEDURE: **Rwy 24**, climb runway heading to 4300, then continue climb on course.

CORVALLIS, OR

CORVALLIS MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, std. with a min. climb of 290' per NM to 3100 or 1700-3 for climb in

visual conditions. **Rwy 27**, std. with a min. climb of 310' per NM to 3100 or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 9, 17**, climbing left turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

Rwys 27, 35, climbing right turn direct CVO VOR/DME, thence...or, climb in visual conditions to cross CVO VOR/DME at or above 3400.

...climb in CVO VOR/DME holding pattern (E, RT, 261° inbound) to depart at or above 3400.

NOTE: **Rwy 9**, multiple trees and railroad beginning 549' from departure end of runway, 254' left of centerline, up to 153' AGL/383' MSL. Multiple trees and railroad

beginning 670' from departure end of runway, 5' right of centerline, up to 135' AGL/380' MSL. **Rwy 27**,

obstruction light on glideslope 409' from departure end of runway, 325' left of centerline, 28' AGL/273' MSL.

Rwy 35, multiple trees beginning 470' from departure end of runway, 544' left of centerline up to 36' AGL/276' MSL.

COWLEY/LOVELL/BYRON, WY

NORTH BIG HORN COUNTY

DEPARTURE PROCEDURE: **Rwys 9, 27**, aircraft departing via HCY NDB bearings 130° CW 225° climb on course, all others climb in HCY NDB holding pattern (W, right turns, 078° inbound) to cross HCY NDB at or above 9000.

DEER PARK, WA

DEER PARK (DEW)

AMDT 1 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, 300-1½ or std. with a min. climb of 455' per NM to 2500.

DEPARTURE PROCEDURE: **Rwy 4**, climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 16**, climb heading 164° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 22**, climbing left turn heading 155° and GEG VORTAC R-006 to GEG VORTAC. **Rwy 34**, climbing right turn heading 165° and GEG VORTAC R-006 to GEG VORTAC.

NOTE: **Rwy 4**, aircraft 261' from DER, 511' left of centerline, up to 21' AGL/2210' MSL. Trees beginning 1809' from DER, 413' left of centerline, up to 109' AGL/2299' MSL. Aircraft 104' from DER, 186' right of centerline, up to 21' AGL/2200' MSL. Trees beginning 1667' from DER, 373' right of centerline, up to 116' AGL/2319' MSL. **Rwy 16**, trees beginning 31' from DER, 455' left of centerline, up to 109' AGL/2279' MSL. Trees beginning 2587' from DER, 621' right of centerline, up to 104' AGL/2264' MSL. **Rwy 22**, trees beginning 1461' from DER, 211' right of centerline, up to 90' AGL/2270' MSL. **Rwy 34**, aircraft 23' from DER, 218' left of centerline, up to 21' AGL/2230' MSL. Trees beginning 2678' from DER, 18' left of centerline, up to 165' AGL/2375' MSL. Vehicles beginning 74' from DER, 339' right of centerline, up to 15' AGL/2234' MSL. Trees beginning 2219' from DER, 260' right of centerline, up to 100' AGL/2382' MSL.

DILLON, MT

DILLON

TAKE-OFF MINIMUMS: **Rwys 3, 21**, NA.

DEPARTURE PROCEDURE: **Rwys 16, 34**, turn right, climb in DLN VOR/DME holding pattern (N, right turns, 185° inbound) to cross DLN VOR/DME at or above; northwestbound V257 8500; southwestbound V121 8500; northbound V21 7600; southeastbound V21, V257 9400.

DOUGLAS, WY

CONVERSE COUNTY

TAKE-OFF MINIMUMS: **Rwy 5**, 300-2 or std. with a min. climb of 250' per NM to 5200. **Rwy 23**, 1700-3 or std. with a min. climb of 260' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn via IIP VOR/DME R-342 to IIP VOR/DME. **Rwy 11**, climbing right turn via IIP VOR/DME R-312 to IIP VOR/DME. **Rwy 23**, climbing left turn via IIP VOR/DME R-264 to IIP VOR/DME. **Rwy 29**, climbing right turn via IIP VOR/DME R-325 to IIP VOR/DME. **All aircraft** departing IIP R-253 CW R-180 climb on course. All others continue climb in IIP VOR/DME holding pattern (NW, left turns, 125° inbound) to cross IIP VOR/DME at or above: R-181 CW R-199 9600; R-200 CW R-252 8000.

NOTE: **Rwy 5**, trees 1883' from departure end of runway, 549' right of centerline, 35' AGL/5014' MSL. Trees 3407' from departure end of runway, 209' right of centerline, 35' AGL/5074' MSL. Trees 5458' from departure end of runway, 1954' right of centerline, 35' AGL/5132' MSL. **Rwy 23**, trees 2068' from departure end of runway, 1008' left of centerline, 35' AGL/4994' MSL. Trees 3130' from departure end of runway, 1215' left of centerline, 35' AGL/5014' MSL.

DRIGGS, ID

DRIGGS-REED MEMORIAL (DIJ)

AMDT 2 08157 (FAA)

DEPARTURE PROCEDURE: Use LAMON DEPARTURE.

EASTSOUND, WA

ORCAS ISLAND (ORS)

AMDT 1 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, NA-Terrain. **Rwy 34**, 500-3 or std. w/ min. climb of 224' per NM to 600.

DEPARTURE PROCEDURE: **Rwy 34**, climbing right turn to 2000 to intercept HUH VORTAC R-210 to HUH VORTAC, then climb-in-hold (hold South, Left turns, 352° inbound) to cross HUH VORTAC at or above 3800 before proceeding on course.

NOTE: **Rwy 34**, trees beginning 330' from DER, 411' left of centerline, up to 120' AGL/139' MSL.

ELLENBURG, WA

BOWERS FIELD

TAKE-OFF MINIMUMS: **Rwys 7, 11**, 4600-3 or std. with a min. climb of 290' per NM to 7800. **Rwy 25**, 4700-3 or std. with a min. climb of 340' per NM to 7800. **Rwy 29**, 4600-3 or std. with a min. climb of 320' per NM to 7800.

DEPARTURE PROCEDURE: **Rwys 7, 29**, climbing right turn direct ELN VORTAC. **Rwys 11, 25**, climbing left turn direct ELN VORTAC. **All aircraft**, continue climbing in the ELN VORTAC holding pattern (W, right turns, 087° inbound) to MEA/MOCA for route of flight.

EPHRATA, WA

EPHRATA MUNI (EPH)

AMDT 3 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 027° to 2300 before proceeding on course. **Rwy 11**, climb heading 112° to 2200 before proceeding on course. **Rwy 21**, climb heading 207° to 2800 before proceeding on course.

EUGENE, OR

MAHLON SWEET FIELD

DEPARTURE PROCEDURE: **Rwys 16L, 16R**, climb to 1000 then climbing right turn... **Rwys 34L, 34R**, climb to 1000 then climbing left turn...

...all aircraft climb direct EUG VORTAC, then climb in EUG VORTAC holding pattern (hold north, right turn, 175° inbound) to cross EUG VORTAC at or above MEA altitude before proceeding enroute.

NOTE: **Rwy 16R**, tree 1992' from departure end of runway, 832' left of centerline, 50' AGL/419' MSL. **Rwy 16L**, multiple trees and power poles beginning 872' from departure end of runway, 35' right of centerline, up to 50' AGL/437' MSL, multiple trees and power poles beginning 890' from departure end of runway, 77' left of centerline, up to 50' AGL/433' MSL. **Rwy 34R**, multiple trees beginning 2869' from departure end of runway, 186' right of centerline, up to 50' AGL/447' MSL. Tree 2535' from departure end of runway, 652' left of centerline, 50' AGL/428' MSL.

EVANSTON, WY

EVANSTON-UINTA COUNTY BURNS FIELD
 DEPARTURE PROCEDURE: **Rwy 5**, climb via heading 050° and FBR VOR/DME R-243 to FBR VOR/DME.
Rwy 23, climbing left turn via heading 030° and FBR VOR/DME R-243 to FBR VOR/DME.
All aircraft: cross FBR VOR/DME at or above MEA for direction of flight.

EVERETT, WA

SNOHOMISH COUNTY (PAINE FIELD)
 TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb of 353' per NM to 800.
 DEPARTURE PROCEDURE: **Rwys 11, 16L/R**, climbing right turn, thence...**Rwys 29, 34L/R**, climbing left turn, thence...
 ...for aircraft departing via V287 west bound, climb via PAE VOR/DME R-236 to 3000. All others, climb direct PAE VOR/DME, climb in PAE VOR/DME holding pattern (NW, RT, 149° inbound) to MEA for route of flight before proceeding on course.
 NOTE: **Rwy 11**, multiple antennas on building, rod on obstruction light, and trees beginning 326' from departure end of runway, 387' right of centerline, up to 85' AGL/664' MSL. Tree 1156' from departure end of runway, 600' left of centerline, 93' AGL/672' MSL. **Rwy 16L**, multiple trees and pole beginning 588' from departure end of runway, 220' left of centerline, up to 118' AGL/697' MSL. Multiple trees, pole, and building beginning 449' from departure end of runway, 162' right of centerline, up to 78' AGL/657' MSL. **Rwy 16R**, multiple trees beginning 1228' from departure end of runway, 168' left of centerline, up to 140' AGL/699' MSL. Multiple trees beginning 707' from departure end of runway, 158' right of centerline, up to 118' AGL/687' MSL. **Rwy 29**, multiple trees beginning 45' from departure end of runway, 66' left of centerline, up to 111' AGL/630' MSL. Multiple trees beginning 343' from departure end of runway, 44' right of centerline, up to 110' AGL/689' MSL. **Rwy 34R**, multiple trees and pole beginning 3340' from departure end of runway, 180' right of centerline, up to 95' AGL/674' MSL. Tree 5762' from departure end of runway, 221' left of centerline, 103' AGL/682' MSL.

FAIRCHILD AFB (KSKA)

SPOKANE, WA ORIG, 08017
 DEPARTURE PROCEDURES: **Rwy 5**, climb on track 048° to intercept SKA R-045 to 5300, then on course. **Rwy 23**, climb on track 241° to 3400, then on course.
 TAKE-OFF OBSTACLES: **Rwy 23**, Terrain 2468' MSL, 194' from DER, 405' right of centerline. Terrain 2477' MSL, 461' from DER, 751' right of centerline. Terrain 2477' MSL, 509' from DER, 750' right of centerline.

FORT BENTON, MT

FORT BENTON
 TAKE-OFF MINIMUMS: **Rwys 5, 23**, std. w/ min. climb of 274' per NM to 8900 or 5100-3 for climb in visual conditions.
 DEPARTURE PROCEDURE: **Rwys 5, 23**, for climb in visual conditions: Cross Fort Benton Airport at or above 8900 MSL before proceeding on course.

FORT BRIDGER, WY

FORT BRIDGER
 DEPARTURE PROCEDURE: **All aircraft** climb direct FBR VOR/DME. Aircraft departing; FBR R-210 CW R-135 climb on course; FBR R-136 CW R-209 cross FBR VOR/DME at or above 9000. (Hold NE, right turns, 215° inbound).

FRIDAY HARBOR, WA

FRIDAY HARBOR
 TAKE-OFF MINIMUMS: **Rwy 34**, 500-1.
 DEPARTURE PROCEDURE: Aircraft departing FHR NDB **Rwy 34**, climbing right turn direct FHR NDB, then climb on course. All other aircraft climb on course.

GILLETTE, WY

GILLETTE-CAMPBELL COUNTY (GCC)
 AMDT 4 09071 (FAA)
 TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 275' per NM to 5600, or 1200-3 for climb in visual conditions. **Rwy 21**, 600-3 or std. w/ min. climb of 425' per NM to 5200.
 DEPARTURE PROCEDURE: **Rwy 16**, climb via heading 158° to 5100, before proceeding on course or, for climb in visual conditions cross Gillette-Campbell County airport at or above 5400 before proceeding on course. **Rwy 21**, climb via heading 206° to 5200, before proceeding on course.
 NOTE: **Rwy 3**, windsock 1415' from DER, 100' left of centerline, 24' AGL/4366' MSL. Trees beginning 1976' from DER, 267' right of centerline, up to 30' AGL/4409' MSL. **Rwy 16**, tower and poles beginning 1.61 NM from DER, 1264' left of centerline, up to 57' AGL/4696' MSL. Post and trees beginning 1.77 NM from DER, 300' right of centerline, up to 51' AGL/4789' MSL. **Rwy 21**, fence 328' from DER, 267' left of centerline, 7' AGL/4352' MSL, trees 2077' from DER, 1011' right of centerline, 30' AGL/4449' MSL, tree 7029' from DER, 2378' right of centerline, 30' AGL/4729' MSL. **Rwy 34**, fence 1236' from DER, 723' left of centerline, 16' AGL/4380' MSL. Vehicle on road 1609' from DER, 419' left of centerline, 15' AGL/4394' MSL. Trees 3093' from DER, 936' right of centerline, 30' AGL/4449' MSL. Vehicle on road 1610' from DER. 419' left of centerline, 15' AGL/4380' MSL.

GOODING, ID

GOODING MUNI (GNG)
 ORIG 08269 (FAA)
 DEPARTURE PROCEDURE: **Rwy 7**, climb heading 068° to 5000 before turning left. **Rwy 25**, climb heading 233° to 5600 before turning right.
 NOTE: **Rwy 7**, rising terrain 59' from departure end of runway, 479' right of centerline, up to 3754' MSL. Fence line 653' from departure end of runway, 332' right of centerline, 12' AGL up to 3751' MSL. Bushes starting 877' from departure end of runway, 420' right of centerline, 20' AGL up to 3795' MSL. **Rwy 25**, vehicle on road, 91' from departure end of runway, 257' left of centerline, up to 10' AGL/3678' MSL.

GRANGEVILLE, ID

IDAHO COUNTY (S80)

AMDT 1 08157 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 10 - Obstacles.

DEPARTURE PROCEDURE: **Rwy 25**, Use MELLR

DEPARTURE.

GRANTS PASS, OR

GRANTS PASS

TAKE-OFF MINIMUMS: **Rwy 12**, NA. **Rwy 30**, 4000-3 or std. with a min. climb of 360' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 30**, climb via heading 320 until passing 5000, then climbing right turn direct RBG VOR/DME. Cross RBG VOR/DME at or above MEA for route of flight.

GRAY AAF (KGRF)

FORT LEWIS, WA AMDT 2, 10098

Rwy 15, Standard

Rwy 33, 300-1*

* Or standard with minimum climb of 430/NM to 600.

DEPARTURE PROCEDURE: **Rwy 15**, Climb heading 147° to 700 then climbing left turn direct GRF NDB.

Rwy 33, Climb direct GRF NDB. Aircraft departing 330° CW 070° and 135° CW 260° bearing from GRF NDB climb on course. All others continue climb in GRF NDB holding pattern (hold NW, RT, 147° inbound) to cross GRF NDB at or above: 071° CW 134° bearing from GRF NDB, 8500; 261° CW 329° bearing from GRF NDB, 1500.

TAKE-OFF OBSTACLES: **Rwy 15**, Tree 100' AGL/439' MSL, 1848' from DER, 430' right of centerline. **Rwy 33**, Tree 100' AGL/479' MSL, 3465' from DER, 1338' left of centerline.

GREAT FALLS, MT

GREAT FALLS INTL

NOTE: **Rwy 7**, obstruction light on lighted wind sock 237' from departure end of runway, 519' left of centerline, 34' AGL/3694' MSL. Obstruction light on building 2226' from departure end of runway, 614' left of centerline, 78' AGL/3738' MSL. Building on 681' from departure end of runway, 583' right of centerline, 48' AGL/3688' MSL. Multiple light poles beginning 1359' from departure end of runway, 440' right of centerline, up to 90' AGL/3746' MSL. **Rwy 21**, pole 1544' from departure end of runway, 791' left of centerline, 45' AGL/3725' MSL. **Rwy 25**, windmill 2.3 NM from departure end of runway, 4197' right of centerline, 338' AGL/4003' MSL.

GREYBULL, WY

SOUTH BIG HORN COUNTY (GEY)

ORIG-A 09239 (FA)

TAKE-OFF MINIMUMS: **Rwy 25**, 300-1 or std. w/min. climb of 260' per NM to 4200.

DEPARTURE PROCEDURE: **All runways**, for departures on Gey bearings 320° CW 150°, climb in Gey NDB holding pattern to 9000 before departing on course, then continue climb to MEA or assigned altitude. Departures Gey bearings 150° CW 320° climb on course.

NOTE: **Rwy 25**, bush 4955' from DER, 1268' right of centerline, 2' AGL/4101' MSL.

GUERNSEY, WY

CAMP GUERNSEY

TAKE-OFF MINIMUMS: **Rwy 14**, 300-1 or std. with a min. climb of 320' per NM to 4700. **Rwy 32**, 1400-2 or std. with a min. climb of 320' per NM to 5800.

DEPARTURE PROCEDURE: **Rwy 14**, climb to 5600 via heading 150°. **Rwy 32**, climb to 5800 via heading 070°. **All aircraft** continue on course.

HAILEY, ID

FRIEDMAN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 13**, 2700-3 w/min. climb of 307' per NM to 6400, or 3600-3 for climb in visual conditions. **Rwy 31**, NA-obstacles.

DEPARTURE PROCEDURE: **Rwy 13**, Climbing right turn heading 149°, then on 160° course to HLE NDB, or for climb in visual conditions: cross Friedman Memorial Airport at or above 8800 heading 151°, then on 151° course to HLE NDB.

NOTE: **Rwy 13**, multiple trees beginning 763' from departure end of runway, 3' right of centerline, up to 100' AGL/5345' MSL. Multiple trees beginning 1.3 NM from departure end of runway, 2587' right of centerline, up to 100' AGL/6099' MSL.

HAMILTON, MT

RAVALLI COUNTY

DEPARTURE PROCEDURE: Use HAMEY RNAV DEPARTURE.

HAVRE, MT

HAVRE CITY-COUNTY (HVR)

AMDT 3 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, 300-1½ or std. w/min. climb of 217' per NM to 3300.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 3300 then climbing left turn to 8000 direct HVR VOR/DME thence...**Rwy 8**, climb heading 077° to 3300 then climbing left turn to 8000 via HVR R-025 to HVR VOR/DME thence...**Rwy 21**, climb heading 212° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...**Rwy 26**, climb heading 257° to 3300 then climbing right turn to 8000 direct HVR VOR/DME thence...

...continue climb in hold in HVR VOR/DME holding pattern (hold west, right turns, 094° inbound) to cross HVR VOR/DME at or above 8000 before proceeding on course.

NOTE: **Rwy 3**, pole 2682' from DER, 1044' left of centerline, 21' AGL/2680' MSL. **Rwy 8**, obstruction light on windsock 59' from DER, 224' left of centerline, 9' AGL/2588' MSL. Tree 1192' from DER, 752' left of centerline, 25' AGL/2610' MSL. Tank 1.3 NM from DER, 2287' left of centerline, 57' AGL/2797' MSL. **Rwy 26**, light on windsock, 50' from DER, 225' right of centerline, 9' AGL/2589' MSL. Trees beginning 1617' from DER, 650' right of centerline, 25' AGL/2659' MSL.

HELENA, MT

HELENA RGNL (HLN)
ADMT 9 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 5**, 2500-3 or std. w/ min. climb of 250' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 9**, std. w/ min. climb of 240' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 23**, 1600-3 or std. w/ min. climb of 560' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwy 27**, 1600-3 or std. w/ min. climb of 390' per NM to 8100, or 1600-3 for climb in visual conditions. **Rwys 16, 34, NA**.
DEPARTURE PROCEDURE: **Rwys 5, 9**, climbing left turn heading 270°. **Rwys 23, 27**, climbing right turn heading 020°. **All Aircraft**: continue climb northwestbound via HLN R-318 to 8100, then climbing right turn direct HLN VORTAC, cross HLN VORTAC at or above 9000, before proceeding on course, or for climb in visual conditions: cross Helena Rgnl airport northbound at or above 5300 and continue climbing via HLN R-336 to WOKEN INT before proceeding on course.

NOTE: **Rwy 5**, ground beginning 5' from departure end of runway, 495' right of centerline, up to 3826' MSL. Fence beginning 423' from departure end of runway, 331' right of centerline, up to 10' AGL/3832' MSL. **Rwy 23**, pole 2198' from departure end of runway, 462' left of centerline, 76' AGL/3996' MSL, tree 1011' from departure end of runway, 379' left of centerline, 44' AGL/3964' MSL, rod on building 953' from departure end of runway, 321' left of centerline, 323' AGL/943' MSL, tree 1519' from departure end of runway, 142' right of centerline, 53' AGL/3953' MSL. **Rwy 27**, building 1593' from departure end of runway, 731' left of centerline, 58' AGL/6385' MSL. Ground beginning 101' from departure end of runway, 346' left of centerline, up to 3871' MSL. Tree 1567' from departure end of runway, 616' left of centerline, 47' AGL/3906' MSL.

HERMISTON, OR

HERMISTON MUNI

NOTE: **Rwy 4**, tower 379' left of departure end of runway, 50' AGL/698' MSL. **Rwy 22**, light pole 456' left of departure end of runway, 44' AGL/684' MSL.

HOQUIAM, WA

BOWERMAN

TAKE-OFF MINIMUMS: **Rwy 6**, 600-2 or std. with a min. climb of 260' per NM to 600.
DEPARTURE PROCEDURE: **Rwy 6**, climbing right turn heading 110°. **Rwy 24**, climb runway heading.
All aircraft climb to 600 continue climb on course.

HULETT, WY

HULETT MUNI (W43)
ORIG 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 13**, std. w/ min. climb of 450' per NM to 6300, or 500-2½ w/ min. climb of 295' per NM to 7700, or 2200-3 for climb in visual conditions.
DEPARTURE PROCEDURE: **Rwy 13**, climb to 7700 via heading 132° before proceeding on course, or climb in visual conditions: cross Hulett Muni Airport at or above 6300 before proceeding on course. **Rwy 31**, climbing right turn on a heading between 090° clockwise to 115° from departure end of runway to 7700 before proceeding on course.

NOTE: **Rwy 13**, road 398' from departure end of runway, 37' left of centerline, 15' AGL/4296' MSL, truck on road 1126' from departure end of runway, 346' right of centerline, 15' AGL/4334' MSL, trees beginning 4945' from departure end of runway, across centerline, up to 100' AGL/4657' MSL. **Rwy 31**, terrain 104' from departure end of runway, 420' left of centerline, 4200' MSL, terrain 344' from departure end of runway, 233' left of centerline, 4207' MSL.

IDAHO FALLS, ID

IDAHO FALLS RGNL (IDA)
AMDT 4 09351 (FAA)

DEPARTURE PROCEDURE: **All aircraft** departing IDA R-160 CW R-040 climb on course. **All others** climb direct IDA VOR/DME. Continue climb in IDA holding pattern (South, left turns, 019° inbound) to cross IDA VOR/DME at or above 7500 before proceeding on course.

NOTE: **Rwy 2**, pole 1039' from DER, 758' left of centerline, 42' AGL/4762' MSL. **Rwy 17**, trees, flagpole, building, light and vent on buildings, and vehicle on road beginning 29' from DER, 10' right of centerline, up to 84' AGL/4820' MSL. Trees and vent on building beginning 569' from DER, 22' left of centerline, up to 35' AGL/4760' MSL. Trees, antenna, and light poles beginning 1853' from DER, 26' right of centerline, up to 121' AGL/4851' MSL. **Rwy 35**, trees and railroad beginning 410' from DER, 503' right of centerline, up to 49' AGL/4769' MSL. Tree 1034' from DER, 715' left of centerline, 42' AGL/4762' MSL.

JACKSON, WY

JACKSON HOLE

DEPARTURE PROCEDURE: **Rwy 1**, use GEYSER DEPARTURE. **Rwy 19**, use TETON DEPARTURE.

TAKE-OFF MINIMUMS AND (OBSTACLE) DEPARTURE PROCEDURES



JEROME, ID

JEROME COUNTY (JER)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 9**, 500-1½ or std. w/ min. climb of 435' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 9**, climb heading 086° to 5300 before proceeding on course. **Rwy 27**, climb heading 266° to 4800 before proceeding on course.

NOTE: **Rwy 9**, bush 140' from DER, 500' left of centerline, 16' AGL/4076' MSL. Poles starting 1432' from DER, 32' left of centerline, up to 47' AGL/4169' MSL. Sign 1473' from DER, 547' left of centerline, 49' AGL/4119' MSL. Obstruction light on building 1510' from DER, 6' left of centerline, 43' AGL/4103' MSL. Trees starting 1651' from DER, 100' left of centerline, up to 53' AGL/4137' MSL. Building 2186' from DER, 173' left of centerline, 29' AGL/4119' MSL. Rising terrain starting 2549' from DER, 560' left of centerline, up to 4219' MSL. AG equip 4752' from DER, 517' left of centerline, 26' AGL/4175' MSL. Poles starting 600' from DER, 254' right of centerline, up to 48' AGL/4173' MSL. **Rwy 27**, fence starting 18' from DER, 440' left of centerline, up to 9' AGL/3969' MSL.

JOHN DAY, OR

GRANT COUNTY RGNL/OGILVIE FIELD (GCD)

AMDT 1 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9, 17, 35**, NA, Terrain.

DEPARTURE PROCEDURE: **Rwy 27**, climbing left turn to 12000 heading 270° and IMB R-100 to IMB VORTAC, climb in IMB VORTAC holding pattern (E, right turns, 280° inbound) to cross IMB VORTAC at or above MEA for route of flight.

NOTE: **Rwy 27**, fence beginning 195' from departure end of runway, 50' right of centerline, up to 16' AGL/3665' MSL. Trees beginning 229' from departure end of runway, 261' right of centerline, up to 26' AGL/3662' MSL. Bush 389' from departure end of runway, 438' right of centerline, 20' AGL/3659' MSL.

KALISPELL, MT

GLACIER PARK INTL

DEPARTURE PROCEDURE: Use SKOTT DEPARTURE.

KELSO, WA

SOUTHWEST WASHINGTON RGNL (KLS)

AMDT 3 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, NA, terrain. **Rwy 30**, std. with a min. climb of 370' per NM to 1900 or 1900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 30**, climb heading 303° to 1900 then climbing right turn to 3900 direct LSO NDB. Continue climb in LSO NDB holding pattern (North, right turns, 175° inbound) to cross LSO NDB at or above 3900, then via BTG R-310 to BTG VORTAC. For climb in visual conditions: cross Southwest Washington Rgnl at or above 1800, then via BTG R-309 to BTG VORTAC.

NOTE: **Rwy 30**, light pole 22' from DER, 301' right of centerline, 30' AGL/49' MSL. Windsock 235' from DER, 348' left of centerline, 30' AGL/49' MSL. Rotating beacon 502' from DER, 425' left of centerline, 50' AGL/70' MSL. Multiple trees beginning 213' from DER, 530' right to 747' left of centerline, up to 136' AGL/155' MSL. Pole 964' from DER, 44' right of centerline, 30' AGL/50' MSL.

KEMMERER, WY

KEMMERER MUNI (EMM)

AMDT 1 09239 (FAA)

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA -Rwy surfaces.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 12000 via heading 166° and FBR VOR/DME R-330 to FBR VOR/DME before proceeding on course. **Rwy 34**, climb via heading 346° to 8200 then climbing right turn to 12000 via heading 125° and FBR VOR/DME R-345 to FBR VOR/DME before proceeding on course.

KLAMATH FALLS, OR

KLAMATH FALLS

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 14**, 1100-3 or std. with a min. climb of 275' per NM to 5500. **Rwy 25**, 3300-3 or std. with a min. climb of 250' per NM to 7400. **Rwy 32**, 2000-3 or std. with a min. climb of 320' per NM to 6300.

DEPARTURE PROCEDURE: **Rwys 14, 25**, climb via runway heading to 6000 then climbing right turn direct LMT VORTAC, thence... **Rwy 32**, climb via runway heading to 5500 then climbing left turn direct LMT VORTAC, thence... climb in LMT holding pattern (W, right turns, 070° inbound) to cross LMT VORTAC at or above 8000.

LA GRANDE, OR

LA GRANDE/UNION COUNTY

TAKE-OFF MINIMUMS: **Rwy 12**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 4500-3 or std. with a min. climb of 500' per NM to 7800. **Rwy 30**, Cat A/B 2900-3 or std. with a min. climb of 350' per NM to 6100. Cat C/D 3600-3 or std. with a min. climb of 450' per NM to 6800. **Rwy 34**, 2900-3 or std. with a min. climb of 350' per NM to 6100. **Rwy 16**, 2000-3 or std. with a min. climb of 500' per NM to 5000.

DEPARTURE PROCEDURE: **Rwy 12, 16**, climbing left turn direct LGD NDB, thence; **Rwys 30, 34**, climbing right turn heading 010°, thence; **all aircraft** climb to 7000 via the 339° bearing from LGD NDB, then climbing right turn direct LGD NDB.



LAKEVIEW, OR

LAKE COUNTY

TAKE-OFF MINIMUMS: **Rwy 16**, 3700-5 or std. with a min. climb of 320' per NM to 8800. **Rwy 34**, 2500-5 or std. with a min. climb of 320' per NM to 8500.

DEPARTURE PROCEDURE: **Rwy 16**, climbing right turn via LKV R-163 to LKV VORTAC. **Rwy 34**, climbing left turn heading 320° to intercept LKV R-148 then via LKV R-148 to LKV VORTAC. **All aircraft** continue climbing in the LKV VORTAC holding pattern (NW, right turns, 148° inbound) to MEA for route of flight.

LARAMIE, WY

LARAMIE RGNL

DEPARTURE PROCEDURE: **Rwy 3**, turn left.

Rwys 12, 21, turn right. **All aircraft** climb direct LAR VORTAC, continue climb in holding pattern (W, left turns, 107° inbound) to cross LAR VORTAC at or above: westbound V4, 10600. All others cross LAR VORTAC at or above MEA for direction of flight.

LAUREL, MT

LAUREL MUNI

TAKE-OFF MINIMUMS: **Rwys 9, 14, 27, 32**, NA.

DEPARTURE PROCEDURE: **Rwy 22**, turn left.

All aircraft climb direct BIL VORTAC.

LEWISTON, ID

LEWISTON-NEZ PERCE COUNTY

DEPARTURE PROCEDURE: **Rwys 8, 11, 26, 29**, turn left direct MQG VOR/DME. Continue climb in holding pattern (W, left turns, 066° inbound) to cross MQG VOR/DME at or above 3600.

LEWISTOWN, MT

LEWISTOWN MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, 1800-2 or std. with a min. climb of 280' per NM to 6900. **Rwy 7, 12**, 900-2 or std. with a min. climb of 220' per NM to 6200.

DEPARTURE PROCEDURE: **Rwys 2, 30** turn left.

Rwys 7, 12, 20, turn right. **Rwy 25**, climb runway heading. **All aircraft** climb direct LWT VORTAC.

Continue climb in holding pattern (W, right turns, 094° inbound) to MEA for route of flight.

LEXINGTON, OR

LEXINGTON

TAKE-OFF MINIMUMS: **Rwy 26**, std. with min. climb of 280' per NM to 7600, or 1600-2 ½ for climb in visual conditions. **Rwy 8**, std. with min. climb of 490' per NM to 4200, or 1600-2 ½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 8, 26**, for climb in visual conditions: cross Lexington Airport at or above 3600.

NOTES: **Rwy 8**, trees 1.42 NM from departure end of runway, 2386' left of centerline, 100' AGL/2159' MSL. Trees 1.48 NM from departure end of runway, 2755' left of centerline, 100' AGL/2179' MSL.

LIBBY, MT

LIBBY

TAKE-OFF MINIMUMS: **Rwy 33**, not authorized.

Rwy 15, use EYESE RNAV DEPARTURE.

LIVINGSTON, MT

MISSION FIELD (LVM)

AMDT 3 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwys 8, 13, 26, 31**, NA-Environmental.

DEPARTURE PROCEDURE: **Rwys 4, 22**, use LIVINGSTON DEPARTURE.

MADRAS, OR

MADRAS MUNI (S33)

AMDT 1 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwys 16, 22**, std. with a min. climb of 298' per NM to 3900 or 1300-3 for climb in visual conditions

DEPARTURE PROCEDURE: **Rwys 4, 34**, climbing left turn heading 210° to intercept DSD R-348 to DSD VORTAC, thence... **Rwy 16**, climbing right turn heading 210° to intercept DSD R-348 to DSD VORTAC, thence..., or for climb in visual conditions: cross Madras Muni airport at or above 3600 MSL, then proceed on DSD R-356 to DSD VORTAC, thence... **Rwy 22**, climb heading 216° to intercept DSD R-348 to DSD VORTAC, thence..., or for climb in visual conditions: cross Madras Muni airport at or above 3600 MSL, then proceed on DSD R-356 to DSD VORTAC, thence...

...continue climb-in-hold (hold North, right turns, 168° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 4**, vehicle on road beginning 7' from DER, 268' left of centerline, up to 15' AGL/2444' MSL. Airplane on tarmac 60' from DER, 252' right of centerline, 40' AGL/2469' MSL. Bush 383' from DER, 483' right of centerline, 19' AGL/2439' MSL. Vehicle on road 742' from DER, 112' right of centerline, up to 15' AGL/2447' MSL. **Rwy 16**, bushes beginning 196' from DER, 151' left of centerline, up to 14' AGL/2444' MSL. Airplane on tarmac 1357' from DER, 280' right of centerline 40' AGL/2479' MSL. **Rwy 34**, bushes beginning 92' from DER, 116' right of centerline, up to 17' AGL/2437' MSL. Airplane on tarmac 1396' from DER, 375' left of centerline, 40' AGL/2469' MSL.

MC CALL, ID

MC CALL MUNI (MYL)

AMDT 2 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 34**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwy 16**, use MCCALL DEPARTURE.

MC CHORD FIELD (KTCM)

TACOMA, WA 10154

DEPARTURE PROCEDURE: **Rwy 16**, Track heading 160°, turn left to intercept SEA VORTAC R-168 (V495) to SEA 168/37.1 DME (ALDER). Cross ALDER at or above 4000. After ALDER, maintain MEA/MOCA for route of flight. **Rwy 34**, Track heading 340°, then turn right to intercept SEA VORTAC R-168 (V495) to SEA R-168/37.1 DME (ALDER). Cross ALDER at or above 4000. Maintain MEA/MOCA for route of flight.

TAKEOFF OBSTACLES: **Rwy 16**, Grove of trees 143' AGL/454' MSL, 4892' from DER, 1353' left of centerline. Grove of trees 102' AGL/419' MSL, 2395' from DER, 1028' right of centerline. Trees 136' AGL/447' MSL, 2867' from DER, 1261' left of centerline. Trees 120' AGL/430' MSL, 2594' from DER, 1113' left of centerline. Trees 85' AGL/394' MSL, 2310' from DER, 957' left of centerline. Trees 83' AGL/392' MSL, 2006' from DER, 959' left of centerline. Trees 87' AGL/389' MSL, 1758' from DER, 971' left of centerline. **Rwy 34**, Tree 106' AGL/348' MSL, 2307' from DER, 1038' left of centerline. Tree 121' AGL/370' MSL, 3190' from DER, 526' right of centerline. Aircraft 65' AGL/317' MSL, 186' from DER, 407' left of centerline. Tree 64' AGL/343' MSL, 2260' from DER, 1036' left of centerline. Building 40' AGL/321' MSL, 1668' from DER, 810' left of centerline.

MC MINNVILLE, OR

MC MINNVILLE MUNI (MMV)

AMDT 4 08325 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, 400-1½ or std. w/min. climb of 238' per NM to 400, or alternatively, with standard take-off minimums and normal 200'/NM climb gradient, take-off must occur no later than 2000' prior to departure end of runway. **Rwy 17**, std. w/min. climb of 300' per NM to 1200 or 1800-2½ for climb in visual conditions. **Rwy 22**, std. w/min. climb of 303' per NM to 1400 or 1800-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 038° to intercept UBG R-170 to UBG VOR/DME, thence ...

Rwy 17,22, climbing left turn to intercept UBG R-183 to UBG VOR/DME, thence ... or for climb in visual conditions: cross Mc Minnville Muni at or above 1800 before proceeding on course. **Rwy 35**, climb heading 347° to intercept UBG R-221 to UBG VOR/DME, thence...

... continue climb in UBG VOR/DME holding pattern (S, left turns, 003° inbound) until reaching MEA for route of flight.

NOTE: **Rwy 4**, multiple trees beginning 2040' from departure end of runway, 353' left and 209' right of centerline, up to 100' AGL/339 feet MSL. **Rwy 17**, tree 1719' from departure end of runway, 456' right of centerline, 100' AGL/231' MSL. Tree 1760' from departure end of runway, 627' left of centerline, 100' AGL/257' MSL. **Rwy 22**, multiple trees beginning 282' from departure end of runway, 120' left and 144' right of centerline, up to 100' AGL/246' MSL. Tree 4047' from departure end of runway, 1319' left of centerline, 100' AGL/284' MSL. **Rwy 35**, multiple trees beginning 1551' from departure end of runway, 229' right of centerline, up to 100' AGL/277' MSL.

MEDFORD, OR

ROGUE VALLEY INTL-MEDFORD (MFR)

AMDT 9 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwys 9,27**, NA-Obstacles.

Rwy 14, std. w/min. climb of 430' per NM to 4600, or 2900-3 for climb in visual conditions. **Rwy 32**, std. with a min. climb of 260' per NM to 6800, or 2900-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 14**, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

Rwy 32, climbing right turn direct OED VORTAC, or for climb in visual conditions, cross Rogue Valley Intl airport at or above 4100 before proceeding direct OED VORTAC...

...all aircraft climb in OED VORTAC holding pattern (hold NW, right turns, 153° inbound) to cross OED VORTAC at or above 6400.

MISSOULA, MT

MISSOULA INTL (MSO)

AMDT 8 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwys 7,25**, NA-Obstacles.

DEPARTURE PROCEDURE: **Rwys 11, 29**, use GRZLY DEPARTURE.

MOSES LAKE, WA

GRANT COUNTY INTL

NOTE: **Rwy 14R**, antenna 3902' from departure end of runway, 828' right of centerline, 98' AGL/1268' MSL.

Rwy 18, pole 405' from departure end of runway, 334' right of centerline, 30' AGL/1209' MSL. Windsock 496' from departure end of runway, 371' left of centerline, 16' AGL/1195' MSL. **Rwy 32L**, pole 1326' from departure end of runway, 373' left of centerline, 22' AGL/1202' MSL.

MOUNTAIN HOME AFB (KMUO)

MOUNTAIN HOME, ID 07270

Rwy 12,30, 6700-3*

* Or standard with minimum climb of 270/NM to 9100.

TAKE-OFF OBSTACLES: **Rwy 12**, Terrain 0' AGL/3028' MSL, 1224' from DER, 744' right of centerline. Terrain 0' AGL/3035' MSL, 824' from DER, 721' right of centerline. Terrain 0' AGL/3035' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3022' MSL, 49' from DER, 202' right of centerline. Terrain 0' AGL/3018' MSL, 148' from DER, 328' left of centerline. Terrain 0' AGL/3016' MSL, 300' from DER, 580' left of centerline. Road/Vehicle 15' AGL/3044' MSL, 1147' from DER, 794' right of centerline. Power pole 35' AGL/3069' MSL, 2914' from DER, 940' right of centerline. Tower 30' AGL/3032' MSL, 1067' from DER, 902' right of centerline. Tower 28' AGL/3039' MSL, 1172' from DER, 796' right of centerline. Tower 45' AGL/3054' MSL, 2152' from DER, 1478' left of centerline. **Rwy 30**, Terrain 0' AGL/2995' MSL, 40' from DER, 492' left of centerline. Terrain 0' AGL/2999' MSL, 370' from DER, 467' right of centerline. Terrain 0' AGL/3006' MSL, 507' from DER, 636' right of centerline. Terrain 0' AGL/3007' MSL, 570' from DER, 653' right of centerline. Road/Vehicle 35' AGL/3019' MSL, 954' from DER, 773' left of centerline.

MOUNTAIN HOME, ID

MOUNTAIN HOME MUNI

TAKE-OFF MINIMUMS: **Rwy 10**, 3500-2 or std. with a min. climb of 305' per NM to 7300. **Rwy 28**, 3500-2 or std. with a min. climb of 290' per NM to 7300.

DEPARTURE PROCEDURE: **Rwy 10**, climbing left turn direct STI NDB. **Rwy 28**, climbing right turn direct STI NDB. All aircraft departing STI NDB bearing 080° CW 340° climb on course. All others continue climb in hold (E, left turns, 271° inbound) to cross STI NDB at or above 7300.

NAMPA, ID

NAMPA MUNI

DEPARTURE PROCEDURE: **Rwy 11**, climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course. **Rwy 29**, climb runway heading to 3700 then climbing right turn direct MPA NDB, continue climb in MPA holding pattern (NW, right turns, 145° inbound). Depart MPA NDB at or above 5500 before proceeding on course.

NOTE: **Rwy 11**, 70' AGL tree, 1225' from departure end of runway, 90' right of centerline.

NEWCASTLE, WY

MONDELL FIELD (ECS)

AMDT 3A 09267 (FAA)

TAKE-OFF MINIMUMS: **Rwys 5,17,23,35**, NA. **Rwy 13**, 200-1 or std. with a min. climb of 275' per NM to 4400. **Rwy 31**, 300-1 or std. with a min. climb of 300' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 31**, climbing left turn. All aircraft climb to 5500 via ECS R-143, then climbing right turn direct ECS VOR, continue climb on course.

NOTE: **Rwy 13**, fence posts, beginning 299' from DER, 218' left of centerline, up to 10' AGL/4190' MSL. Light on antenna 1951' from DER, 879' left of centerline, 84' AGL/4244' MSL. **Rwy 31**, multiple poles, beginning 74' from DER, 237' right of centerline, up to 20' AGL/4200' MSL. Bush 5787' from DER, 1441' right of centerline, 13' MSL/4363' MSL. Railroad 735' from DER, 314' right of centerline 30' AGL/4202' MSL. Road 207' from DER, 254' right of centerline, 15' AGL/4187' MSL.

NEWPORT, OR

NEWPORT MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, NA. **Rwy 16**, 500-2 or std. with a min. climb of 310' per NM to 800.

DEPARTURE PROCEDURE: **Rwy 2**, NA. **Rwy 16**, turn right. **Rwy 34**, turn left. Aircraft departing via ONP R-180 CW R-320 depart on course. All others continue climbing via ONP R-200 to 1500 then climbing left turn direct ONP VORTAC. Cross ONP VORTAC at or above 2200.

NORTHBEND, OR

SOUTHWEST OREGON RGNL (OTH)

AMDT 5 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwy 4**, std. with a min. climb of 475' per NM to 1200 or 900-3 with a min. climb of 300' per NM to 900 or 1600-2½ for climb in visual conditions. **Rwy 13**, 400-2½ with a min. climb of 250' per NM to 2500 or 1600-2½ for climb in visual conditions. **Rwy 31**, 300-1½ or std. with a min. climb of 280' per NM to 300.

DEPARTURE PROCEDURE: **Rwy 4**, climb heading 043° to intercept OTH VORTAC R-337 northwest bound to 1800 before proceeding on course, or for climb in visual conditions cross Southwest Oregon Rgnl airport at or above 1500 before proceeding on course. **Rwy 13**, climb heading 132° to 1300 before proceeding on course, or for climb in visual conditions cross Southwest Oregon Rgnl airport at or above 1500 before proceeding on course. **Rwy 22**, climb heading 223° to 700 before proceeding on course. **Rwy 31**, climb heading 312° to 800 before proceeding on course.

NOTE: **Rwy 4**, Obstruction light on antenna 383' from DER, 207' right of centerline, 22' AGL/35' MSL. Ship 1000' from DER, on centerline, up to 140' MSL. Obstruction lights on bridge beginning 1886' from DER, 621' left of centerline, up to 93' AGL/93' MSL. Bridge beginning 4728' from DER, 580' right of centerline, 265' AGL/265' MSL. Obstruction lights on bridge beginning 4741' from DER, 948' right of centerline, up to 268' AGL/268' MSL. Transmission tower 5031' from DER, 677' right of centerline, 213' AGL/216' MSL. Trees beginning 1.2 NM from DER, 409' left of centerline, up to 150' AGL/549' MSL. Trees beginning 1.5 NM from DER, 1396' right of centerline, up to 150' AGL/629' MSL. Buildings beginning 1.7 NM from DER, 776' left of centerline, up to 73' AGL/393' MSL. **Rwy 13**, bushes beginning 38' from DER, 175' left of centerline, up to 16' AGL/33' MSL. Vehicle on road, 193' from DER, 237' left of centerline, up to 15' AGL/30' MSL. Bush 193' from DER, 145' right of centerline, up to 20' AGL/37' MSL. Trees beginning 346' from DER, 17' right of centerline, up to 150' AGL/349' MSL. Buildings beginning 504' from DER, 243' right of centerline, up to 86' AGL/106' MSL. Trees beginning 628' from DER, 6' left of centerline, up to 150' AGL/298' MSL. Antenna on building 712' from DER, 554' right of centerline, up to 51' AGL/68' MSL. Poles beginning 880' from DER, 13' right of centerline, up to 136' AGL/236' MSL. Spire 3467' from DER, 1122' left of centerline, 55' AGL/243' MSL. Pole 1.0 NM from DER, 159' left of centerline, up to 121' AGL/221' MSL. **Rwy 22**, ship 4050' from DER, on centerline, up to 140' MSL. **Rwy 31**, ship 1000' from DER, on centerline, up to 140' MSL. Trees beginning 5037' from DER, 15' left of centerline, up to 92' AGL/232' MSL. Trees beginning 5985' from DER, 1419' right of centerline, up to 108' AGL/188' MSL.

OAK HARBOR, WA

A J EISENBERG (OKH)

ORIG-A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 7**, 300-1. **Rwy 25**, 300-1
DEPARTURE PROCEDURE: **Rwy 7**, climb via heading
071° to 2000, then climbing right turn direct CVV
VOR/DME. Continue climb on course. **Rwy 25**, climb
via heading 251° to 2100, then climbing left turn direct
CVV VOR/DME. Continue climb on course.

NOTE: **Rwy 7**, multiple trees beginning 1167' from DER,
212' left of centerline, up to 80' AGL/319' MSL. Multiple
trees beginning 664' from DER, 208' right of centerline,
up to 80' AGL/299' MSL. Fence 612' from DER, right
and left of centerline, 10' AGL/229' MSL. Multiple
bushes beginning 240' from DER, 64' left of centerline,
up to 8' AGL/227' MSL. **Rwy 25**, cars on road 87' from
DER, left and right of centerline, up to 15' AGL/174'
MSL. Multiple trees beginning 2271' from DER, right
and left of centerline, up to 80' AGL/279' MSL.

OLYMPIA, WA

OLYMPIA RGNL (OLM)

AMDT 5A 09127 (FAA)

TAKE-OFF MINIMUMS: **Rwy 17**, 300-2 or std. with a
min. climb of 706' per NM to 600, or 2200-3 for climb in
visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading
085° to 1000 then climbing left turn direct OLM
VORTAC, thence... **Rwy 17**, climb heading 172° to 1200
then climbing right turn direct OLM VORTAC, thence...
or climb in visual conditions to cross OLM VORTAC at
or above 2300, thence... **Rwys 26, 35**, climbing right
turn direct OLM VORTAC, thence...

...continue climb in OLM VORTAC holding pattern
(south, right turn, 356° inbound) to cross OLM
VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, multiple trees beginning 880' from DER,
214' left of centerline, up to 100' AGL/343' MSL.

Multiple trees beginning 1636' from DER, 131' right of
centerline, up to 100' AGL/320' MSL. **Rwy 17**, multiple
trees beginning 1008' from DER, 24' left of centerline,
up to 100' AGL/490' MSL. Multiple trees beginning 752'
from DER, 3' right of centerline, up to 100' AGL/370'
MSL. **Rwy 26**, multiple trees and WSK on building
beginning 475' from DER, 595' left of centerline, up to
100' AGL/330' MSL. Multiple trees beginning 338' from
DER, 339' right of centerline, up to 100' AGL/309' MSL.
Rwy 35, multiple trees beginning 2176' from DER, 198'
left of centerline, up to 100' AGL/313' MSL. Multiple
trees and field light on hangar beginning 657' from
DER, 621' right of centerline, up to 100' AGL/315' MSL.

OMAK, WA

OMAK

TAKE-OFF MINIMUMS: **Rwy 17**, 2200-2 or std. with a
min. climb of 300' per NM to 4200. **Rwy 35**, NA.

DEPARTURE PROCEDURE: **Rwy 17**, use GETNG
RNAV DEPARTURE. **Rwy 35**, NA.

ONTARIO, OR

ONTARIO MUNI (ONO)

AMDT 3 08325 (FAA)

DEPARTURE PROCEDURE: **Rwy 32**, climb to 9600 on
a heading between 010° CW to 141° from departure end
of runway or minimum climb of 280' per NM to 9600 for
all other courses.

NOTE: **Rwy 14**, multiple trees, poles, and buildings
beginning 90' from departure end of runway, 157' right
of centerline up to 120' AGL/2314' MSL. Multiple trees,
poles, and buildings beginning 502' from departure end
of runway, 506' left of centerline up to 120' AGL/2314'
MSL. **Rwy 32**, multiple trees, poles, and buildings
beginning 340' from departure end of runway, 405' left of
centerline up to 100' AGL/2458' MSL. Multiple trees,
poles, and buildings beginning 2' from departure end of
runway, 472' right of centerline up to 100' AGL/2431'
MSL.

PASCO, WA

TRI-CITIES

DEPARTURE PROCEDURE: **All runways**, climb
runway heading to 1000, thence... **Rwy 12**, turn left. All
others turn right. **All aircraft** climb direct PSC VOR/
DME before proceeding on course.

PENDLETON, OR

EASTERN OREGON RGNL AT PENDLETON
(PDT)

AMDT 3 09183 (FAA)

DEPARTURE PROCEDURE: **Rwys 7, 29, 34**, climbing
left turn direct PDT VORTAC, thence...

Rwys 11, 16, climbing right turn direct PDT VORTAC,
thence...

Rwy 25, climb direct PDT VORTAC, thence...

...continue climb in PDT VORTAC holding pattern
(West, left turn, 073° inbound) to cross PDT VORTAC
at or above MEA before proceeding on course.

NOTE: **Rwy 16**, multiple trees beginning 232' from DER,
348' right of centerline, up to 100' AGL/1579' MSL.

Rwy 25, multiple antennas and terrain beginning 203'
from DER, 259' left of centerline, up to 13' AGL/1512'
MSL. **Rwy 29**, terrain 189' from DER, 247' left of
centerline, 1493' MSL.

PINEDALE, WY

PINEDALE/RALPH WENZ FIELD (PNA)

AMDT 2 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 29**, std. with a min. climb
of 310' per NM to 8300, or 4900-3 for climb in visual
conditions.

DEPARTURE PROCEDURE: **Rwy 11**, climbing right
turn to 10000 via heading 190° and BPI R-040 to BPI
VOR/DME before proceeding on course. **Rwy 29**,
climbing left turn to 10000 via heading 230° and BPI
R-020 to BPI VOR/DME before proceeding on course
or for climb in visual conditions: cross Pinedale/Ralph
Wenz Field at or above 11800 before proceeding on
course.

PLENTYWOOD, MT

SHER-WOOD

NOTE: **Rwy 12**, multiple bushes beginning 47' from departure end of runway, 71' left of centerline, up to 12' AGL/2251' MSL. Multiple bushes beginning 362' from departure end of runway, 514' right of centerline, up to 12' AGL/2251' MSL. **Rwy 30**, multiple bushes and road beginning 68' from departure end of runway, 75' right of centerline, up to 12' AGL/2303' MSL. Multiple bushes beginning 217' from departure end of runway, 60' left of centerline, up to 12' AGL/2296' MSL.

POCATELLO, ID

POCATELLO RGNL (PIH)

AMDT 7 09351 (FAA)

DEPARTURE PROCEDURE: use KNURL ONE DEPARTURE.

POLSON, MT

POLSON

TAKE-OFF MINIMUMS: **Rwy 18**, N/A-extremely precipitous terrain. **Rwy 36**, standard with a min. climb of 270' per NM to 8400'.

DEPARTURE PROCEDURE: **Rwy 36**, Use ANGIL RNAV DEPARTURE.

NOTES: **Rwy 36**, Road 509' from departure end of runway, 2955' MSL. Trees 2.39 NM from departure end of runway, 3383' left of centerline, 100' AGL/3179 MSL. Rapidly rising precipitous terrain left and right of centerline running along southern Flathead River ridges.

PORT ANGELES, WA

PORT ANGELES CGAS

DEPARTURE PROCEDURE: Copter departure, climb from landing area direct to EDIZ HOOK NDB. Continue climb in holding pattern (NE, right turns, 237° inbound) to MEA for direction of flight.

WILLIAM R FAIRCHILD INTL

DEPARTURE PROCEDURE: **Rwys 8, 13, 26, 31**, use WATTR FIVE DEPARTURE.

PORTLAND, OR

PORTLAND INTL (PDX)

AMDT 6 09015 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3**, 500-3 or std. w/min. climb of 400' per NM to 600. **Rwy 10L/R**, std. w/min. climb of 270' per NM to 2900. **Rwy 21**, std. w/min. of 310' per NM to 1800.

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 025° to 700, then climbing left turn direct BTG VORTAC, thence ... **Rwys 10L, 10R**, climb heading 099° to 500, then climbing left turn direct BTG VORTAC, thence ... **Rwy 21**, climb heading 205.03 to 500, then climbing right turn direct BTG VORTAC, thence ... **Rwys 28L, 28R**, climb heading 279° to 500, then climbing right turn direct BTG VORTAC, thence ... continue climb in BTG VORTAC holding pattern (hold NW, right turns, 149° inbound) to cross BTG VORTAC at or above MCA/MEA before proceeding on course.

NOTE: **Rwy 3**, signs, tower, trees, and vehicle on road beginning 468' from departure end of runway, 28' left of centerline, up to 100' AGL/449' MSL. Poles, trees, and vehicle on road beginning 609' from departure end of runway, 7' left of centerline, up to 100' AGL/416' MSL. **Rwy 10L**, rising terrain and vehicle on road beginning 7' from departure end of runway, 376' left of centerline, up to 17' AGL/60' MSL. **Rwy 10R**, pole 1996' from departure end of runway, 758' right of centerline, 54' AGL/74' MSL. note: **Rwy 21**, trees beginning 1319' from departure end of runway, 155' right of centerline, up to 100' AGL/318' MSL. Poles and trees beginning 353' from departure end of runway, 36' left of centerline, up to 100' AGL/317' MSL. **Rwy 28L**, trees 1873' from departure end of runway, 836' left of centerline, 50' AGL/88' MSL.

Rwy 28R, multiple signs, poles, and vehicle on road beginning 876' from departure end of runway, 654' right of centerline, up to 27' AGL/69' MSL.

PORTLAND, OR (CON'T)

PORTLAND-HILLSBORO (HIO)
AMDT 6 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwy 2**, std. w/ min. climb of 215' per NM to 1900 or 1200-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 235' per NM to 2700 or 1200-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn direct UBG VOR/DME... **Rwy 20**, climbing left turn direct UBG VOR/DME... **Rwys 2, 30**, climbing left turn direct UBG VOR/DME, or for climb in visual conditions cross Portland-Hillsboro airport at or above 1600 then proceed direct UBG VOR/DME...

...all aircraft climb in UBG VOR/DME holding pattern (West, right turns, 108° inbound) to cross UBG VOR/DME at or above MEA/MCA for direction of flight before proceeding on course.

NOTE: **Rwy 2**, vehicle on road 247' from DER, 1' right of centerline, up to 15' AGL/220' MSL. Terrain left and right of centerline beginning at DER up to 302' MSL.

Rwy 12, terrain left and right of centerline beginning at DER up to 296' MSL. Trees 1836' from DER, 8' left of centerline, up to 125' AGL/331' MSL. **Rwy 20**, terrain left and right of centerline beginning at DER up to 306' MSL. Trees and hangers beginning 60' from DER, 32' left of centerline, up to 93' AGL/311' MSL. Trees, antennas and buildings beginning 564' from DER, 411' right of centerline, up to 74' AGL/280' MSL. **Rwy 30**, terrain left and right of centerline beginning at DER up to 292' MSL. Trees beginning 1664' from DER, 626' right of centerline, up to 194' AGL/363' MSL.

PORTLAND-TROUTDALE

TAKE-OFF MINIMUMS: **Rwy 7**, 3600-2 or std. with a min. climb of 380' per NM to 4100. **Rwy 25**, 900-2 or std. with a min. climb of 360' per NM to 1000.

DEPARTURE PROCEDURE: **Rwy 7**, turn left.

Rwy 25, turn right. **All aircraft** climb via BTG R-125 direct BTG VORTAC. Continue climb on BTG R-329 within 10 NM to cross BTG VORTAC at or above: BTG R-355 CW R-055 or R-085 CW R-115 5000; all others 2500.

POWELL, WY**POWELL MUNI**

TAKE-OFF MINIMUMS: **Rwy 3, 16, 21, 34**, NA.

DEPARTURE PROCEDURE: **Rwy 13**, turn right.

Rwy 31, turn left. **All aircraft** climb direct COD VOR/DME. Aircraft departing COD R-350 CW R-170 climb on course. All others continue climb in COD VOR/DME holding pattern (N, left turns, 189° inbound) to cross COD VOR/DME at or above 8800

PRINEVILLE, OR

PRINEVILLE (S39)
AMDT 1 08213 (FAA)

TAKE-OFF MINIMUMS: **Rwy 10**, std. w/ min. climb of 350 feet per NM to 6500, or 2400-3 for climb in visual conditions. **Rwy 15**, std. w/ min. climb of 470' per NM to 6200, or 2400-3 for climb in visual conditions. **Rwy 28**, std. w/ min. climb of 450' per NM to 6700, or 2400-3 for climb in visual conditions. **Rwy 33**, std. w/ min. climb of 380' per NM to 6700, or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 10**, climb heading 102° to 6500 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 15**, climb heading 154° to 6200 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course. **Rwy 28**, climb heading 282° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

Rwy 33, climb heading 334° to 6700 before proceeding on course or for climb in visual conditions cross Prineville Muni airport at or above 5600 before proceeding on course.

NOTE: **Rwy 10**, trees beginning 2693' from departure end of runway, 545' right of centerline, up to 100' AGL/3339' MSL. **Rwy 15**, trees beginning 1129' from departure end of runway, 697' right of centerline, up to 100' AGL/3319' MSL. **Rwy 28**, trees beginning 1803' from departure end of runway, 74' right of centerline, up to 100' AGL/3319' MSL. **Rwy 33**, trees beginning 2636' from departure end of runway, 379' right of centerline, up to 100' AGL/3319' MSL.

PULLMAN-MOSCOW, WA**PULLMAN-MOSCOW RGNL**

TAKE-OFF MINIMUMS: **Rwy 5**, 300-1½ with a min. climb of 278' per NM to 4400, or 4600-3 for climb in visual conditions. **Rwy 23**, 300-1 or std. with a min. climb of 361' per NM to 4700.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn direct PUW VOR/DME, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight, or for climb in visual conditions; cross Pullman-Moscow Rgnl at or above 4500. **Rwy 23**, climbing left turn via PUW VOR/DME R-021, cross PUW VOR/DME at or above 4700, continue climb in PUW VOR/DME holding pattern (SW, left turn, 032° inbound) to cross PUW VOR/DME at or above MEA for direction of flight.

NOTE: **Rwy 5**, multiple trees and terrain left and right of centerline, beginning 614' from departure end of runway, 424' right of centerline up to 50' AGL/2677' MSL. Terrain 3503' from departure end of runway, 770' left of centerline, 50' AGL/2608' MSL. **Rwy 23**, multiple trees, terrain, fences, poles, and tanks beginning 669' from departure end of runway, 412' right of centerline, up to 52' AGL/2769' MSL.

PUYALLUP, WA

PIERCE COUNTY-THUN FIELD (PLU)

AMDT 1A 09071 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16, 34**, 300-1.DEPARTURE PROCEDURE: **Rwy 16**, climbing rightturn. **Rwy 34**, climb runway heading. **All aircraft** climb via SEA R-158 to COTNY INT/SEA 18.1 DME.

Continue in COTNY holding pattern (Hold S, left turns, 338° inbound) to depart COTNY at or above: 001° CW 090° 3500, 090° 3500, 091° CW 120° 10,400, 121° CW 170° 2700, 171° CW 360° 1500.

NOTE: **Rwy 16**, light pole 511' from DER, 567' right of centerline, 40' AGL/552' MSL. Multiple poles on building beginning 187' from DER, 416' left of centerline, up to 575' MSL. Multiple trees beginning 363' from DER, 656' left of centerline to 540' right of centerline, up to 662' MSL. Vehicles on road beginning 1149' from DER, 512' right of centerline, up to 15' AGL/582' MSL. Terrain beginning 1293' from DER, 529' left of centerline to 352' right of centerline, up to 581' MSL. Pipe 1520' from DER, 303' left of centerline, 574' MSL. **Rwy 34**, multiple trees beginning 58' from DER, 591' left of centerline to 1029' right of centerline, up to 694' MSL. Flagpole 1155' from DER, 464' left of centerline, 578' MSL. Building 564' from DER, 410' left of centerline, 555' MSL.

RAWLINS, WY

RAWLINS MUNI/HARVEY FIELD

TAKE-OFF MINIMUMS: **Rwy 4**, 600-2 or std. with a min.climb of 440' per NM to 7500. **Rwy 22**, 1500-2 or std.with a min climb of 365' per NM to 8700. **Rwys 10, 28**, NA.DEPARTURE PROCEDURE: **Rwy 4**, turn right.

Rwy 22, turn left. Climb to 10000 via RWL R-200 and CKW R-080 to CKW VOR/DME then via assigned route. Aircraft departing eastbound V4 or V6 climb via RWL R-200 to assigned route then climb on course.

REDMOND, OR

ROBERTS FIELD (RDM)

AMDT 5 09183 (FAA)

TAKE-OFF MINIMUMS: **Rwy 22**, std. w/ min. climb of 269' per NM to 4700. **Rwy 28**, std. w/ min. climb of 276' per NM to 4800.

DEPARTURE PROCEDURE: **Rwy 4**, climbing left turn via heading 265° and DSD R-047 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 10**, climbing right turn via heading 240° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 22**, climb heading 222° and DSD R-090 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course. **Rwy 28**, climbing left turn via heading 275° and DSD R-045 to DSD VORTAC, climb in DSD VORTAC holding pattern (hold North, right turn, 168° inbound) to cross DSD VORTAC at or above MEA for route of flight before proceeding on course.

NOTE: **Rwy 28**, numerous trees beginning 1' from DER, 356' right of centerline, 12' AGL/3079' MSL. Tree 364' from DER, 448' left of centerline, 15' AGL/3054' MSL.

RENTON, WA

RENTON MUNI (RNT)

AMDT 7 09351 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 405' per NM to 800, or 1100-2½ for climb in visual conditions. **Rwy 34**, 500-2½ or std. with a min. climb of 315' per NM to 700.

DEPARTURE PROCEDURE: **Rwy 16**, climb heading

157° to 700, then climbing right turn direct SEA VORTAC, thence..., or for climb in visual conditions: cross Renton Muni Airport westbound at or above 1000 MSL, then proceed on SEA R-029 to SEA VORTAC, thence... **Rwy 34**, Climb heading 337° to 700, then climbing left turn direct SEA VORTAC thence ...

...Climb in SEA VORTAC holding pattern (East, left turns, 290° inbound) to cross SEA VORTAC at or above MEA/MCA for direction of flight.

NOTES: **Rwy 16**, trees, towers, lights and blast shield beginning 185' from DER, 4' left of centerline, up to 100' AGL/574' MSL. Trees, lights and sign beginning 40' from DER, 54' right of centerline, up to 100' AGL/297' MSL. **Rwy 34**, Trees and terrain beginning 1.6 NM from DER, 104' left of centerline, up to 100' AGL/485' MSL. Trees, terrain and wood piling beginning 75' from DER, 7' right of centerline, up to 100' AGL/426' MSL.

REXBURG, ID

REXBURG-MADISON COUNTY

DEPARTURE PROCEDURE: **Rwy 17**, climbing right

turn. **Rwy 35**, climbing left turn. **All aircraft** climb via IDA VOR/DME R-015 to RIGBY Int to MEA for route of flight before proceeding on course.

NOTE: **Rwy 17**, 100' AGL trees 125' from departure end of runway, 350' left of centerline. **Rwy 35**, 100' AGL trees 350' from departure end of runway, 450' right of centerline. 100' AGL trees 750' from departure end of runway, 500' left of centerline.

RICHLAND, WA

RICHLAND (RLD)

AMDT 8 10154 (FAA)

TAKE-OFF MINIMUMS: **Rwys 1, 8**, std. w/ min. climb of 310' per NM to 5000. **Rwy 19**, std. w/ min. climb of 480' per NM to 5000. **Rwy 26**, std. w/ min. climb of 350' per NM to 5000.

DEPARTURE PROCEDURE: **Rwys 1, 8**, climbing left turn heading 220° and PSC R-269 to 6000 to PAPPS INT/PSC 32.72 DME before proceeding on course. **Rwy 19**, climbing right turn heading 310° and PSC R-269 to 6000 to PAPPS INT/PSC 32.72 DME before proceeding on course. **Rwy 26**, climb heading 310° and PSC R-269 to 6000 to PAPPS INT/PSC 32.72 DME before proceeding on course.

NOTE: **Rwy 1**, crane 4957' from DER, 1271' right of centerline, up to 120' AGL/520' MSL. Poles beginning 752' from DER, 446' right of centerline, up to 20' AGL/416' MSL. Trees beginning 43' from DER, 102' left of centerline, up to 25' AGL/424' MSL. Multiple trees 184' from DER, 162' right of centerline, up to 25' AGL/424' MSL. **Rwy 8**, railroad beginning 181' from DER, left to right of centerline, up to 23' AGL/412' MSL. Sign 23' from DER, 122' right of centerline, up to 4' AGL/391' MSL. Trees beginning 1142' from DER, 12' right of centerline, up to 25' AGL/454' MSL. Trees beginning 2240' from DER, 94' left of centerline, up to 25' AGL/456' MSL. **Rwy 19**, bushes beginning 22' from DER, 297' left of centerline, up to 7' AGL/401' MSL. Trees beginning 323' from DER, 478' right of centerline, up to 25' AGL/424' MSL. Trees beginning 665' from DER, 399' left of centerline, up to 25' AGL/472' MSL. **Rwy 26**, antenna 310' from DER, 444' right of centerline, up to 7' AGL/408' MSL. Fence 458' from DER, 360' left of centerline, up to 25' AGL/425' MSL. Fence 456' from DER, 408' right of centerline, up to 25' AGL/410' MSL. Post 398' from DER, 255' right of centerline, up to 9' AGL/409' MSL. Bush 755' from DER, 257' right of centerline, up to 17' AGL/417' MSL. Ground 480' from DER, 488' right of centerline, up to 421' MSL. Trees beginning 174' from DER, 231' right of centerline, up to 25' AGL/425' MSL. Trees beginning 184' from DER, 210' left of centerline, up to 25' AGL/457' MSL.

RIVERTON, WY

RIVERTON RGNL (RIW)

AMDT 1 10042 (FAA)

DEPARTURE PROCEDURE: **Rwys 1, 10, 19, 28**, climbing right turn direct RIW VOR/DME. **All Aircraft** climb in RIW holding pattern (hold East, right turns, 287° inbound) to MEA for direction of flight.

NOTES: **Rwy 1**, sage brush beginning 35' from DER, left and right of centerline, up to 3' AGL/5499' MSL. **Rwy 10**, sage brush beginning 20' from DER, left and right of centerline, up to 3' AGL/5466' MSL. **Rwy 19**, sage brush beginning 49' from DER, 171' right of centerline, up to 3' AGL/5479' MSL. Windstocks beginning 154' from DER, 268' right of centerline, up to 28' AGL/5468' MSL. **Rwy 28**, sage brush, tower, and pole beginning 54' from DER, 154' right of centerline, up to 59' AGL/5679' MSL. Sage brush, fence, and poles beginning 132' from DER, 27' left of centerline, up to 67' AGL/5647' MSL.

ROCK SPRINGS, WY

ROCK SPRINGS-SWEETWATER COUNTY (RKS)

AMDT 6 10098 (FAA)

DEPARTURE PROCEDURE: **Rwy 3**, climb heading 032° to 8000 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 9**, climb heading 090° to 8200 then climbing left turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 21**, climb heading 212° to 8400, then climbing right turn direct OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight. **Rwy 27**, climb heading 270° to 7900, then climbing right turn via OCS R-291 to OCS VOR/DME, continue climb in OCS VOR/DME holding pattern (hold East, right turns, 260° inbound) to cross OCS VOR/DME at or above MEA for route of flight.

NOTE: **Rwy 3**, vehicle on road beginning 22' from DER, 120' left of centerline, up to 20' AGL/6760' MSL, bushes beginning 178' from DER, 517' right of centerline, up to 15' AGL/6755' MSL. **Rwy 21**, bush 53' from DER, 221' left of centerline, 15' AGL/6737' MSL.

RONAN, MT

RONAN (7S0)

ORIG 09295 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. w/ min. climb of 260' per NM to 9900 or 6100-3 for climb in visual conditions. **Rwy 34**, std. w/ min. climb of 250' per NM to 9900 or 6100-3 in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb to 8800 on a heading between 177° CW to 336° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course. **Rwy 34**, climb to 8800 on a heading between 336° CCW to 177° from DER or for climb in visual conditions, cross Ronan airport at or above 9000 before proceeding on course.

NOTE: **Rwy 16**, tree 485' from DER, 386' left of centerline 50' AGL/3149' MSL. **Rwy 34**, building 158' from DER, 370' left of centerline 40' AGL/3130' MSL. Tree 1358' from DER, 556' left of centerline 50' AGL/3149' MSL.

ROSEBURG, OR

ROSEBURG RGNL (RBG)

AMDT 5A 08297 (FAA)

TAKE-OFF MINIMUMS: **Rwy 16**, std. with a min. climb of 642' per NM to 2000, or 1700-3 for climb in visual conditions. **Rwy 34**, std. with a min. climb of 760' per NM to 2000, or 1700-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 16**, climb direct RBG VOR/DME, or climb in visual conditions to cross Roseburg Airport southbound at or above 2200, then direct RBG VOR/DME. Then via RBG R-157 and right turn direct RBG VOR/DME to cross at or above the MCA or MEA for route of flight. **Rwy 34**, climb via heading 342° to 4000, or climb in visual conditions to cross Roseburg Airport northbound at or above 2200 and then via heading 342° to 4000. Then climbing left turn direct RBG VOR/DME, to cross RBG VOR/DME at or above MCA or MEA for route of flight. Aircraft that have not reached the MCA or MEA for route of flight continue climb via RBG R-157 and right turn direct RBG VOR/DME.

NOTE: **Rwy 16**, tower 1.56 NM from departure end of runway, 2231' right of centerline, 50' AGL/1201' MSL, tree 1.47 NM from departure end of runway, 1560' right of centerline, 21' AGL/980' MSL, tree 1.46 NM from departure end of runway, 1298' right of runway centerline, 45' AGL/964' MSL, pole 1.36 NM from departure end of runway, 921' right of centerline, 75' AGL/914' MSL, rod on airway beacon 1.29 NM from departure end of runway, 409' right of centerline, 52' AGL/891' MSL, tree 655' from departure end of runway, 347' right of runway centerline, 93' AGL/593' MSL, obstruction light on pole 691' from departure end of runway, 187' right of runway centerline, 117' AGL/557' MSL. **Rwy 34**, tree 1.10 NM from departure end of runway, 2003' left of runway centerline, 60' AGL/1179' MSL. Tree 5165' from departure end of runway, 1744' left of centerline, 64' AGL/1023' MSL. Obstruction light on pole 4850' from departure end of runway, 56' left of centerline, 15' AGL/894' MSL. Tree 4785' from departure end of runway, 48' left of runway centerline, 23' AGL/862' MSL. Tree 1.41 NM from departure end of runway, 1826' left of runway centerline, 17' AGL/896' MSL. Tree 4079' from departure end of runway, 508' left of runway centerline, 21' AGL/780' MSL. Tree 5067' from departure end of runway, 265' right of centerline, 43' AGL/802' MSL. Tree 4260' from departure end of runway, 345' right of centerline, 42' AGL/761' MSL. Tree 1465' from departure end of runway 329' right of runway centerline, 100' AGL/642' MSL. Tree 913' from departure end of runway, 217' right of runway centerline, 100' AGL/622' MSL. Tree 647' from departure end of runway, 345' right of runway centerline, 100' AGL/615' MSL. Hill 1065' from departure end of runway, 299' right of runway centerline 608' MSL. Trees beginning 60' from departure end of runway, 117' left of runway centerline, up to 16' AGL/554' MSL. Trees beginning 242' from departure end of runway, 209' right of runway centerline, up to 56' AGL/584' MSL. Vehicle on road 265' from departure end of runway, 229' right of runway centerline, 15' AGL/560' MSL. Multiple signs beginning 792' from departure end of runway, 550' left of runway centerline, up to 60' AGL/565' MSL. Bush 94' from departure end of runway, 228' right of runway centerline, 19' AGL/547' MSL. Bush 202' from departure end of runway, 92' left of centerline, 7' AGL/535' MSL. Pole 640' from departure end of runway, 354' left of runway centerline, 29' AGL/557' MSL.

SALEM, OR

MCNARY FIELD

TAKE-OFF MINIMUMS: **Rwy 13**, 600-2 or std. with a min. climb of 240' per NM to 800. **Rwy 16**, 600-2 or std. with a min. climb of 340' per NM to 800.

DEPARTURE PROCEDURE: Comply with SIDs or; **Rwys 31, 34**, turn right. **Rwy 16**, turn left. **Rwy 13**, climb heading 130°. **All aircraft** climb direct TURNLOM/Int. Continue climb in holding (SE, left turns, 310° inbound) to cross TURNLOM/INT at or above MEA for route of flight.

SALMON, ID

LEMHI COUNTY

TAKE-OFF MINIMUMS: **Rwy 17**, NA. **Rwy 35**, 4300-5 or std. with a min. climb of 390' per NM to 8000.

DEPARTURE PROCEDURE: **Rwy 17**, NA. **Rwy 35**, climb runway heading to 8000, then climbing left turn to 11,300 direct LKT VOR/DME before proceeding on course.

SANDPOINT, ID

SANDPOINT

TAKE-OFF MINIMUMS: **Rwy 1**, 4200-2 or std. with a min. climb of 520' per NM to 5800. **Rwy 19**, 2200-2 or std. with a min. climb of 480' per NM to 4600.

DEPARTURE PROCEDURE: **Rwy 1**, climbing right turn to COE VOR/DME via heading 200° and COE R-002.

Rwy 19, climbing left turn to COE VOR/DME via heading 140° and COE R-002.

SARATOGA, WY

SHIVELY FIELD

TAKE-OFF MINIMUMS: **Rwy 23**, 400-1 or std. with a min. climb of 220' per NM to 7400.

DEPARTURE PROCEDURE: **Rwy 5**, turn left heading 280°. **Rwy 23**, turn right heading 340°. **All aircraft** climb to 9000 via 310° bearing from SAA NDB then continue climb on course.

SCAPPOOSE, OR

SCAPPOOSE INDUSTRIAL AIRPORT

DEPARTURE PROCEDURE: **Rwy 15**, climbing left turn direct BTG VORTAC. **Rwy 33**, climbing right turn direct BTG VORTAC. Aircraft departing BTG R-160 CW R-329 climbing left turn on course. All others climb in BTG VORTAC holding pattern (NW, right turns, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for direction of flight.

NOTE: **Rwy 15**, 158' MSL tree 470' from departure end of runway, 499' right of centerline. **Rwy 33**, cross departure end of runway 33 at or above 35' AGL/90' MSL. 130' MSL tree 613' from departure end of runway, 414' right of centerline; 142' MSL trees 1343' from departure end of runway, 348' right of centerline.

SCOBEY, MT

SCOBEY

TAKE-OFF MINIMUMS: **Rwy 12**, std. with a min. climb of 280' per NM to 3400.

SEATTLE, WA

BOEING FIELD/KING COUNTY INTL

TAKE-OFF MINIMUMS: **Rwy 13L**, 500-3 w/ min. climb of 232' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 13R**, std. w/ a min. climb of 476' per NM to 900, or 500-3 w/ a min. climb of 386' per NM to 900, or 1000-2½ for climb in visual conditions. **Rwy 31L**, std. w/ a min. climb of 386' per NM to 800, or 300-1½ w/ min. climb of 235' per NM to 800, or 1000-2½ for climb in visual conditions. **Rwy 31R**, std. w/ a min. climb of 334' per NM to 900, or 400-1½ w/ min. climb of 216' per NM to 900, or 1000-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 13L/R**, climbing right turn. **Rwys 31L/R**, climbing left turn. All aircraft climb direct to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000. For climb in visual conditions cross Boeing Field/King County Intl Airport at or above 900, then climb to 3000 via SEAR-344 to SEA VORTAC, continue climb in SEA VORTAC holding pattern (hold east, left turns, 290° inbound) to cross SEA VORTAC at or above 3000.

NOTES: **Rwy 13L**, multiple trees, towers, antennas and building beginning 402' from departure end of runway, 411' left of centerline, up to 127' AGL/479' MSL.

Rwy 13R, multiple trees and poles beginning 35' from departure end of runway, 154' left of centerline, up to 66' AGL/485' MSL. Multiple trees and poles beginning 501' from departure end of runway, 3' right of centerline, up to 77' AGL/195' MSL. **Rwy 31L**, multiple trees, fence, and building beginning 250' from departure end of runway, 253' left of centerline, up to 71' AGL/101' MSL. Multiple trees and floodlights beginning 1245' from departure end of runway, 447' right of centerline, up to 71' AGL/239' MSL. **Rwy 31R**, multiple trees, hangers, towers, poles and building beginning 12' from departure end of runway, 389' right of centerline, up to 103' AGL/350' MSL. Multiple obstruction lights beginning 214' from departure end of runway, 99' left of centerline, up to 71' AGL/101' MSL.

SEATTLE-TACOMA INTL (SEA)

AMDT 4 08325 (FAA)

DEPARTURE PROCEDURE: **Rwys 16L, 16C, 16R**, climb to 1000 via heading 163°, then climbing right turn direct SEA VORTAC, thence...

Rwys 34L, 34C, 34R, climb to 1000 via heading 343°, then climbing left turn direct SEA VORTAC, thence... climb in SEA VORTAC holding pattern (hold SE, left turns, 310° inbound) to MEA/MCA for route of flight.

NOTE: **Rwy 16L**, trees beginning 2908' from departure end of runway, 1064' right of centerline, up to 100' AGL/476' MSL. **Rwy 16C**, trees beginning 4477' from departure end of runway, 484' right of centerline, up to 100' AGL/507' MSL. **Rwy 16R**, trees, antenna on building and light pole beginning 488' from departure end of runway, 436' left of centerline, up to 100' AGL/507' MSL. Trees beginning 1137' from departure end of runway, 587' right of centerline, up to 100' AGL/468' MSL. **Rwy 34L**, fence 189' from departure end of runway, 401' right of centerline, up to 12' AGL/420' MSL. Trees beginning 4010' from departure end of runway, 857' left of centerline, up to 100' AGL/522' MSL.

SHELBY, MT

SHELBY

TAKE-OFF MINIMUMS: **Rwy 5**, 200-1¼ or std. w/ min. climb of 212' per NM to 3700, or alternatively, w/ std. takeoff minimums and a normal 200'/NM climb gradient, takeoff must occur no later than 1300' prior to departure end of runway.

NOTE: **Rwy 5**, fence post 320' from departure end of runway, 162' right of centerline, 12' AGL/3455' MSL, truck on road beginning 515' from departure end of runway, 632' right of centerline, 17' AGL/3498' MSL, tree 1 NM from departure end of runway, 1242' left of centerline, 75' AGL/3604' MSL. **Rwy 11**, truck on road 906' from departure end of runway, 691' left of centerline, 17' AGL/3456' MSL, tree 1697' from departure end of runway, 26' right of centerline, 75' AGL/3495' MSL, tree 1561' from departure end of runway, 322' left of centerline, 75' AGL/3514' MSL, light standard 852' from departure end of runway, 174' left of centerline, 22' AGL/3451' MSL.

SHELTON, WA

SANDERSON FIELD

TAKE-OFF MINIMUMS: **Rwy 5**, std. w/ a min. climb of 312' per NM to 4000, or 1500-2½ for a climb in visual conditions. **Rwy 23**, std. w/ a min. climb of 414' per NM to 4000, or 1500-2½ for a climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 5**, climbing right turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000. **Rwy 23**, climbing left turn to intercept SEAR-230 to CARRO intersection. Or for climb in visual conditions: Cross Sanderson Field northeast bound at or above 1600, thence via SEAR-230 to cross CARRO intersection at or above 4000.

NOTE: **Rwy 5**, multiple trees beginning 550' from departure end of runway, 107' left of centerline, up to 94' AGL/366' MSL. Multiple trees beginning 130' from departure end of runway, 70' right of centerline, up to 80' AGL/352' MSL. **Rwy 23**, multiple trees beginning 52' from departure end of runway, 149' left of centerline, up to 72' AGL/330' MSL. Multiple trees beginning 886' from departure end of runway, 153' right of centerline, up to 155' AGL/486' MSL.

SHERIDAN, WY**SHERIDAN COUNTY**

TAKE-OFF MINIMUMS: **Rwy 5**, 700-3 or std. w/ min. climb of 318' per NM to 5100, or... **Rwy 14**, 800-3 or std. w/ min. climb of 263' per NM to 5100, or... **Rwy 23**, 900-3 or std. w/ min. climb of 348' per NM to 5100, or...
 ... 1400/3 for climb in visual conditions. Climb in visual conditions NA at night.

DEPARTURE PROCEDURE: **Rwy 5**, climbing left turn via SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 14**, climbing left turn via heading 320° and SHR R-106 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 23**, climbing right turn via SHR R-153 to SHR VORTAC, or climb in visual conditions to cross Sheridan County Airport northwestbound at or above 5300, then via SHR R-126 to SHR VORTAC, thence... **Rwy 32**, climb via heading 320° and SHR R-106 to SHR VORTAC, thence...
 ... climb in holding pattern (hold northwest, left turn, 133° inbound) to cross SHR VORTAC at or above airway MEA for route of flight.

NOTE: **Rwy 5**, multiple trees beginning 101' from departure end of runway, 188' left of centerline, up to 80' AGL/3991' MSL. **Rwy 23**, fence 1201' from departure end of runway, 10' left of centerline, 20' AGL/4060' MSL. Building 1949' from departure end of runway, 415' left of centerline, 17' AGL/4077' MSL. Tree 3337' from departure end of runway, 391' right of centerline, 43' AGL/4143' MSL. **Rwy 32**, antenna 53' from departure end of runway, 398' right of centerline, 20' AGL/4020' MSL.

SIDNEY, MT**SIDNEY-RICHLAND MUNI**

TAKE-OFF MINIMUMS: **Rwy 28**, 400-2 or std. with a min. climb of 260' per NM to 2300.

SNOHOMISH, WA**HARVEY FIELD (S43)****ORIG 09127 (FAA)**

TAKE-OFF MINIMUMS: **Rwys 15R, 33L**, NA-obstacles. **Rwy 15L**, std. w/ min. climb of 353' per NM to 1100, or 1200-2½ for climb in visual conditions. **Rwy 33R**, std. w/ min. climb of 475' per NM to 800, or 1200-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 15L**, climbing right turn on 344° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence... **Rwy 33R**, climb on 329° course to WATON LOM, or for climb in visual conditions, cross Harvey Field at or above 1100 then proceed on 329° course to WATON LOM, thence...

... aircraft departing WATON LOM on bearings 150° CW 340° from WATON LOM climb on course. Aircraft departing WATON LOM on bearings 340° CW 150° from WATON LOM, climb in holding pattern (South, left turns, 339° inbound) to cross WATON LOM at or above 4500 before proceeding on course.

NOTE: **Rwy 15L**, tree 81' from DER, 177' right of centerline, 40' AGL/106' MSL. Trees 685' from DER, left and right of centerline, up to 48' AGL/70' MSL. **Rwy 33R**, powerline 139' from DER, 226' left of centerline, 40' AGL/56' MSL. Tree 298' from DER, 205' right of centerline, 104' AGL/121' MSL. Tower 5708' from DER, 1956' right of centerline, 206' AGL/300' MSL.

SPOKANE, WA

FELTS FIELD (SFF)

AMDT 5 10098 (FAA)

TAKE-OFF MINIMUMS: **Rwy 3L**, std. w/ min. climb of 450' per NM to 3600, or 2300-3 for climb in visual conditions. **Rwy 3R**, std. w/ min. climb of 410' per NM to 3700, or 2300-3 for climb in visual conditions. **Rwy 21L**, std. w/ min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions. **Rwy 21R**, std. w/ min. climb of 375' per NM to 3200, or 2300-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwys 3L, 3R**, climb heading 035° to 3600, then climbing right turn heading 210° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above MCA/MEA for route of flight. **Rwys 21L, 21R**, climb heading 215° to 3200, then climbing left turn heading 190° and GEG R-050 to GEG VORTAC, or for climb in visual conditions: cross Felts Field Airport at or above 4100, then via heading 165° and GEG R-050 to GEG VORTAC. Cross GEG VORTAC at or above the MCA/MEA for route of flight.

NOTE: **Rwy 3L**, trees beginning 1853' from DER, 772' right of centerline, up to 100' AGL/2037' MSL. Trees beginning 3538' from DER, 529' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.5 NM from DER, 16' left of centerline, up to 100' AGL/2579' MSL. Trees beginning 2.3 NM from DER, 723' right of centerline, up to 100' AGL/2499' MSL. **Rwy 3R**, hangar, NDB, and trees beginning 92' from DER, 269' right of centerline, up to 100' AGL/2040' MSL. Trees beginning 4685' from DER, 1033' left of centerline, up to 100' AGL/2339' MSL. Antenna, trees and transmission poles beginning 1.6 NM from DER, 525' left of centerline, up to 100' AGL/2559' MSL. Trees and transmission poles beginning 2.6 NM from DER, 214' right of centerline, up to 150' AGL/2570' MSL. **Rwy 21L**, elevator, pole on building and trees beginning 315' from DER, 302' left of centerline, up to 140' AGL/2080' MSL. **Rwy 21R**, poles and trees beginning 188' from DER, 13' right of centerline, up to 100' AGL/1982' MSL. Elevator, pole, hangar, and building beginning 203' from DER, 1' left of centerline, up to 140' AGL/2080' MSL. Terrain and trees beginning 3.1 NM from DER, 4904' left of centerline, up to 100' AGL/2559' MSL.

SPOKANE INTL (GEG)

AMDT 5 10154 (FAA)

DEPARTURE PROCEDURE: **Rwys 3, 25**, climbing left turn direct GEG VORTAC, thence... **Rwys 7, 21**, climbing right turn direct GEG VORTAC, thence... continue climb via R-208 within 10 miles to cross GEG VORTAC at or above: northeast bound V120-448, 5200; eastbound V2, 5200; southeast through westbound climb on course.

NOTE: **Rwy 3**, multiple trees beginning 1089' from DER, 666' left of centerline, up to 100' AGL/2370' MSL. Tree 1524' from DER, 851' right of centerline, 100' AGL/2374' MSL. **Rwy 21**, pole 2655' from DER, 1122' left of centerline, 42' AGL/2446' MSL. Tree 3391' from DER, 1315' right of centerline, 100' AGL/2466' MSL.

STEVENSVILLE, MT

STEVENSVILLE

TAKE-OFF MINIMUMS: **Rwy 12**, do not exceed 210 knots until established on MSOR-163. **Rwy 30**, do not exceed 210 knots until established on MSOR-160.

DEPARTURE PROCEDURE: **Rwy 12**, climbing right turn via heading 335 and MSOR-163 to MSO VOR/DME climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course. **Rwy 30**, climbing right turn via heading 025° and MSO R-160 to MSO VOR/DME Climb in MSO VOR/DME holding pattern (southeast, right turn, 340° inbound) to 13000' before proceeding on course.

SUNRIVER, OR

SUNRIVER

TAKE-OFF MINIMUMS: **Rwy 18**, 300-1 or std. with a min. climb of 360' per NM to 4400. **Rwy 36**, 600-2 or std. with a min. climb of 240' per NM to 4900.

DEPARTURE PROCEDURE: **Rwy 18**, climb runway heading to 7000 then climbing left turn direct DSD VORTAC. **Rwy 36**, climb direct to DSD VORTAC. Then all aircraft climb on course.

TACOMA, WA

TACOMA NARROWS

TAKE-OFF MINIMUMS: **Rwy 35**, 400-1 or std. with a min. climb of 210' per NM to 400'.

DEPARTURE PROCEDURE: **Rwy 17**, turn right, climb via heading 230° to intercept OLM R-009 then direct OLM VORTAC. **Rwy 35**, turn left, climb via heading 270° to intercept SEA R-230 then direct CARRO INT. Continue climb in holding (SW, right turns, 047° inbound) to MEA or assigned altitude for route of flight.

THE DALLES, OR

COLUMBIA GORGE RGNL/THE DALLES MUNI

TAKE-OFF MINIMUMS: **Rwy 2**, CAT A, B 1100-2 or std. with a min. climb of 350' per NM to 1500. CAT C, D 2600-3 or std. with a min. climb of 475' per NM to 3100. **Rwy 7**, 900-3 or std. with a min. climb of 330' per NM to 1200. **Rwy 12**, 1400-3 or std. with a min. climb of 500' per NM to 2000. **Rwy 20**, 1800-3 or std. with a min. climb of 470' per NM to 2200. **Rwy 25**, NA. **Rwy 30**, 2900-3 or std. with a min. climb of 500' per NM to 2700.

DEPARTURE PROCEDURE: **Rwys 2, 7**, climbing right turn heading 120°. **Rwy 12**, climb via runway heading. **Rwys 20, 30**, climbing left turn heading 120°. All aircraft intercept and climb southbound via LTJ R-165 to 3500. Then climbing left turn direct LTJ VORTAC. Continue climb in LTJ holding pattern (E, right turns, 260° inbound) to cross LTJ VORTAC at or above MCA or MEA for route of flight.

TILLAMOOK, OR

TILLAMOOK

TAKE-OFF MINIMUMS: **Rwys 1, 13, 19**, NA. **Rwy 31**, 2000-3 or std. with a min. climb of 350' per NM to 4500.

DEPARTURE PROCEDURE: **Rwys 1, 13, 19**, NA. **Rwy 31**, use FETUJ RNAV DEPARTURE.

TORRINGTON, WY

TORRINGTON MUNI (TOR)
ORIG 10042 (FAA)

NOTE: **Rwy 2**, terrain 30' from DER, 277' left of centerline, 4197' MSL. **Rwy 10**, multiple trees and fence beginning 71' from DER, 143' right of centerline, up to 14' AGL/4214' MSL. Terrain 14' from DER, 502' left of centerline, 4199' MSL. **Rwy 28**, terrain 133' from DER, 386' right of centerline, 4213' MSL.

TWIN FALLS, ID

JOSLIN FIELD-MAGIC VALLEY RGNL
TAKE-OFF MINIMUMS: **Rwy 12**, NA.

DEPARTURE PROCEDURE: Aircraft departing on TWF R-240 CW R-080 climb on course. All others climb runway heading 6000 then climbing turn direct TWF VORTAC. Climb in holding pattern (NW, right turns, 113° inbound) to MCA or MEA as appropriate for direction of flight.

VANCOUVER, WA

PEARSON FIELD (VUO)
AMDT 2 07354 (FAA)

TAKE-OFF MINIMUMS: **Rwy 8**, std. w/ min. climb of 358' per NM to 600, or 500-3 w/ min. climb of 201' per NM to 600, or 900-2½ for climb in visual conditions.

Rwy 26, 600-3 or 900-2½ for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 8**, climb heading 079° to 500 then climbing left turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...

Rwy 26, climb heading 259° to 700 then climbing right turn direct BTG VORTAC, thence... or for climb in visual conditions: cross Pearson Field at or above 800 MSL then proceed on BTG VORTAC R-179 to BTG VORTAC, thence...

...continue climb in BTG VORTAC holding pattern (hold northwest, right turn, 149° inbound) to cross BTG VORTAC at or above MEA/MCA for route of flight.

NOTE: **Rwy 8**, tree 1.4 NM from departure end of runway, 1283' left of centerline, 100' AGL/395' MSL.

Tree 1.7 NM from departure end of runway, 701' left of centerline, 100' AGL/401' MSL. Tree 2 NM from

departure end of runway, 849' left of centerline, 100' AGL/406' MSL. Tree 2.4 NM from departure end of runway, 648' left of centerline, 100' AGL/399' MSL.

Rwy 26, bridge 2704' from departure end of runway, 587' left of centerline, 243' AGL/245' MSL. Crane 1.5 NM from departure end of runway, 2563' right of centerline, 237' AGL/267' MSL. Transmission line tower 2.5 NM from departure end of runway, 2036' right of centerline, 516' AGL/534' MSL.

WALLA WALLA, WA

WALLA WALLA RGNL

DEPARTURE PROCEDURE: **Rwys 2, 7, 20, 25, 34**, turn left. **Rwy 16**, turn right. **All aircraft** climb to 2500 via ALW VOR/DME R-195, then climbing right turn direct ALW VOR/DME to cross ALW VOR/DME at or above MEA or MCA for route of flight.

NOTE: **Rwy 16**, antenna 365' from departure end of runway, 97' right of centerline, 1155' MSL. Terrain 1' from departure end of runway 140' left of centerline, 1145' MSL. **Rwy 20**, light 666' from departure end of runway, 640' left of centerline, 1170' MSL. **Rwy 34**, terrain 213' from departure end of runway, 230' right of centerline, 1130' MSL.

WEISER, ID

WEISER MUNI (S87)
ORIG 08269 (FAA)

TAKE-OFF MINIMUMS: **Rwy 12**, std. w/ min. climb of 310' per NM to 3900 or 2400-3 for climb in visual conditions. **Rwy 30**, std. w/ min. climb of 360' per NM to 4000 or 2400-3 for climb in visual conditions.

DEPARTURE PROCEDURE: **Rwy 12**, climb heading 121° to 3900 before proceeding on course. **Rwy 30**, climb heading 301° to 4000 before proceeding on course

...for climb in visual conditions: cross Weiser Muni airport at or above 4400 before proceeding on course.

NOTE: **Rwy 12**, tree 248' from departure end of runway, 443' right of centerline, 100' AGL/2184' MSL. **Rwy 30**, tree 1907' from departure end of runway, 769' right of centerline, 100' AGL/2174' MSL.

WENATCHEE, WA

PANGBORN MEMORIAL

TAKE-OFF MINIMUMS: **Rwy 7**, NA. **Rwy 12**, 1500-2 or std. with a min. climb of 510' per NM to 2900.

Rwys 25, 30, CAT A,B 1600-2 or std. with a min. climb of 360' per NM to 3100. CAT C,D 5500-3 or std. with a min. climb of 570' per NM to 7200.

DEPARTURE PROCEDURE: **Rwy 12**, climb runway heading. **Rwys 25, 30**, climbing left turn. **All aircraft** climb via EAT R-113 to 4000 then climbing left turn direct EAT VOR/DME. Aircraft departing EAT R-010 CWR-140 climb on course. All others continue climb in EAT VOR/DME holding pattern (E, right turns, 253° inbound) to cross EAT VOR/DME at or above: R-141 CWR-2007400; R-201 CW R-009, 8200.

WEST YELLOWSTONE, MT

YELLOWSTONE

TAKE-OFF MINIMUMS: **Rwy 19**, 2200-2 or std. with a min. climb of 245' per NM to 8900. FAR 135 AUTH: **Rwy 1**, ½ mile.

DEPARTURE PROCEDURE: **Rwy 1**, turn right. **All aircraft** climb direct TARGY LOM. Aircraft departing TARGY LOM on bearing 190° CW 220° climb on course. All others climb south on bearing 190° within 10 NM of TARGY LOM turn left and continue climbing direct TARGY LOM to cross TARGY LOM at or above: bearing 360° CW 190° 9300, bearing 220° CW 360° 10500

WHEATLAND, WY

PHIFER AIRFIELD

DEPARTURE PROCEDURE: **Rwy 8**, climbing left turn to 9000 via heading 030° to intercept IIP VOR/ DME R-140 to JEZZY Int, thence... **Rwy 26**, climbing right turn to 9000 via heading 360° and GYZ NDB course 051° to JEZZY INT, thence...

...continue climb-in-hold (hold northwest, right turn, 140° inbound) to 9000 before proceeding on course.

NOTE: **Rwy 8**, multiple trees 512' from departure end of runway, 584' left of centerline, 100' AGL/4859' MSL.

Rwy 26, multiple trees, buildings, poles/lights, siren, roads w/ vehicles beginning 2' from departure end of runway, on centerline, to 488' left of centerline, 100' AGL/4899' MSL. Multiple trees, buildings, poles/ lights, roads w/ vehicles beginning 2' from departure end of runway, on centerline to 499' right of centerline, 100' AGL/4859' MSL.

WHIDBEY ISLAND NAS (AULT FIELD)

(NUW)

OKA HARBOR, WA. 07186

Diverse departures not authorized.

MILITARY DEPARTURE PROCEDURE: **Rwy 7**:

Minimum climb of 430'/NM until 600. Climbing left turn to 2000, intercept NUW R-067, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, intercept NUW R-128, expect radar vectors to join assigned route. **Rwy 25**: Climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS**: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, intercept the NUW 11 DME ARC to join assigned route. CIVIL DEPARTURE PROCEDURE:

Rwy 7: Minimum climb of 270'/NM until 700. Climbing left turn to 2000 via heading 067°, expect radar vectors to join assigned route. **Rwy 14**: Climbing left turn to 2000, via heading 128°, expect radar vectors to join assigned route. **Rwy 25**: Use published DP or climb to 2000 via heading 249°, expect radar vectors to join assigned route. **Rwy 32**: Climb to 2000 via heading 317°, expect radar vectors to join assigned route. **ALL RWYS**: If vectors are not received by 10 DME of NUW TACAN, climb to 3000, proceed direct CVV VOR/DME to join assigned route. TAKEOFF OBSTACLES: **Rwy 7**: Terrain, 7813' from DER, 2469' left of centerline, 276' MSL. Trees, 4274' from DER, 5472' left of centerline, 472' MSL. Trees, 5239' from DER, 6257' left of centerline, 495' MSL. Trees, 8561' from DER, 3685' left of centerline, 426' MSL. Trees, 12,561' from DER, 4814' right of centerline, 462' MSL. Terrain, 11,843' from DER, 7129' left of centerline, 502' MSL. Trees, 15,361' from DER, 4015' right of centerline, 521' MSL.

WORLAND, WY

WORLAND MUNI

TAKE-OFF MINIMUMS: **Rwys 4, 10, 22, 28**, NA.

Rwy 16, 300-2 or std. with a min. climb of 230' per NM to 4600.

DEPARTURE PROCEDURE: **All aircraft** climb to

5000, then direct RLY VOR/DME. Aircraft departing RLY R-061 CW R-349 climb on course. All others continue climb in RLY VOR/DME holding pattern (N, right turns, 159° inbound) to cross RLY VOR/DME at or above 7000.

YAKIMA, WA

YAKIMA AIR TERMINAL/MCALLISTER FIELD

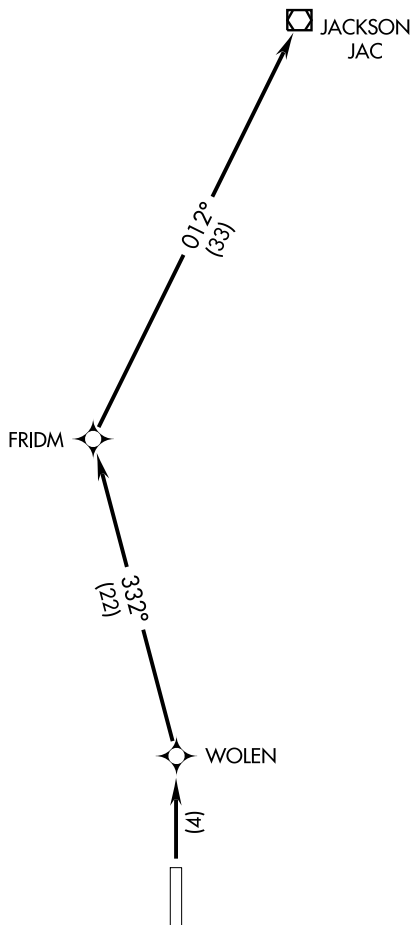
TAKE-OFF MINIMUMS: **Rwy 4**, NA. **Rwy 9**, 800-4 or std. with a min. climb of 300' per NM to 5000. **Rwys 22, 27**, 2500-3 or std. with a min. climb of 300' per NM to 5200.

DEPARTURE PROCEDURE: **Rwy 4**, NA. **Rwys**

9, 22, 27, Use ZILLA DEPARTURE PROCEDURE.

AFTON TWO DEPARTURE (RNAV) (OBSTACLE)

SALT LAKE CENTER
128.35 381.6
CASPER RADIO
122.3
CTAF 122.8



NOTE: Chart not to scale.

NOTE: 1. GPS Required.
2. RNAV 1

TAKE-OFF MINIMUMS

Rwy 34: Standard with minimum climb of 330 feet per NM to 10700.

Rwy 16: NA- Obstacles.

TAKE-OFF OBSTACLE NOTES

Rwy 34: Tree 1054 feet from DER, 605 feet right of centerline, 40' AGL/6241' MSL.

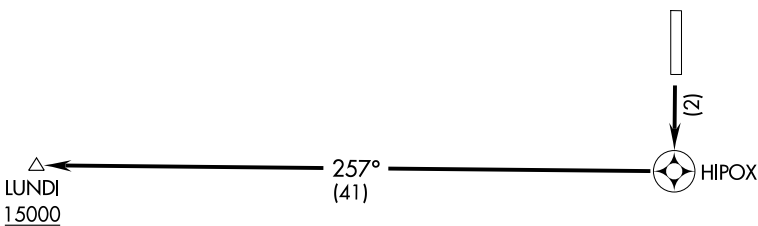
Tree 1703 feet from DER, 235 feet right of centerline, 40' AGL/6259' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 34: Climb to 13000 direct WOLEN, and via 332° track to FRIDM, then via 012° track to JAC VOR/DME.

SALT LAKE CENTER
128.35 381.6
CASPER RADIO
122.3
CTAF 122.8



TAKE-OFF MINIMUMS

Rwy 16: Standard with minimum climb of 515 feet per NM to 10400.
Rwy 34: NA- obstacles.

TAKE-OFF OBSTACLE NOTES

Rwy 16: Tree 1807 feet from DER, 298 feet right of centerline, 40' AGL/6277' MSL.

- NOTE: 1. GPS Required.
2. RNAV 1

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb to 15000 direct HIPOX and right turn via 257° track to LUNDI.

APP CRS
156°

Rwy Idg
TDZE
6188

Apt Elev
6221

RNAV (GPS) RWY 16

AFTON MUNI (AFO)

▽ DME/DME RNP -0.3 NA.
△ NA If local altimeter setting not received, procedure NA.
Circling NA east of Rwy 16-34.

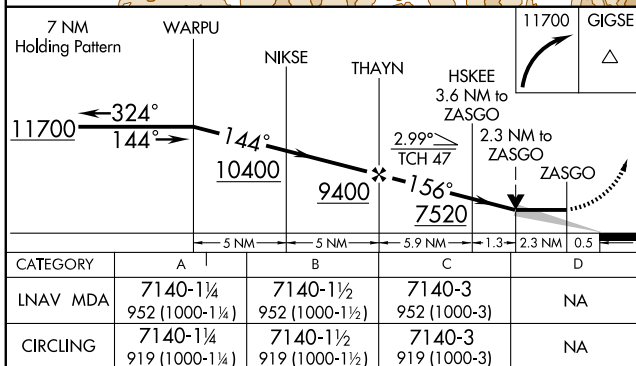
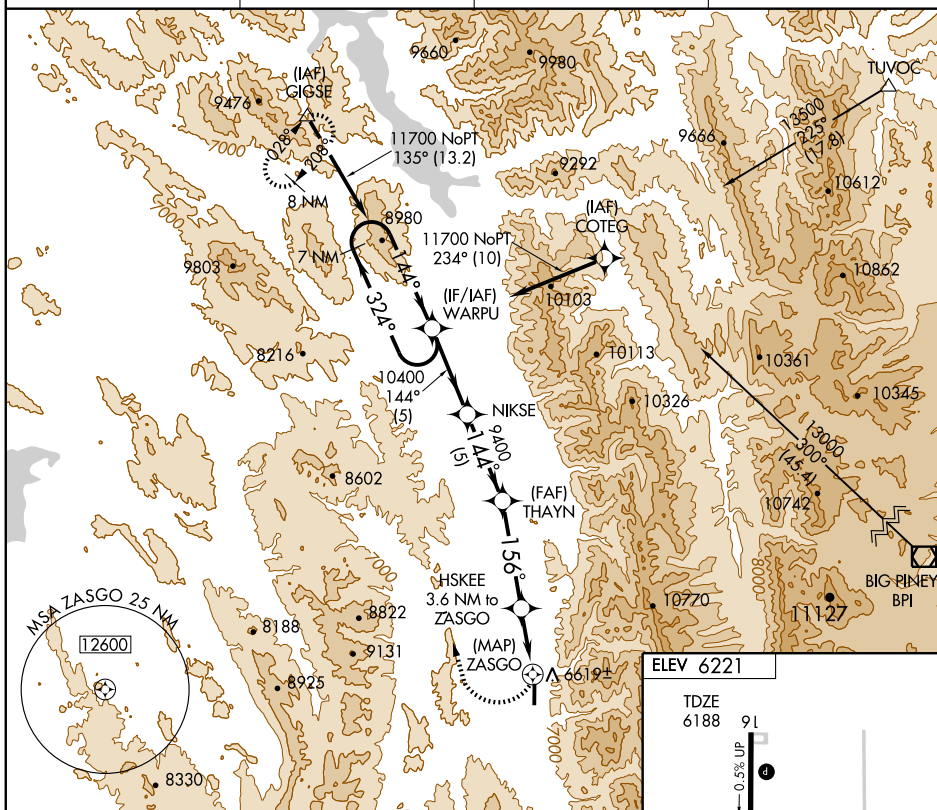
MISSED APPROACH: Climbing right turn to 11700 direct GIGSE and hold. When authorized by ATC, climb-in-hold to 15000.

AWOS-3
119.025

SALT LAKE CENTER
128.35 381.6

CASPER RADIO
122.3

UNICOM
122.8 (CTAF) ①



ELEV 6221

TDZE
6188

91

0.5% UP

7025 X 75

7025 X 75

7025 X 75

7025 X 75

7025 X 75

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MIRL Rwy 16-34 ①

REIL Rwy 16 and 34 ①

▼

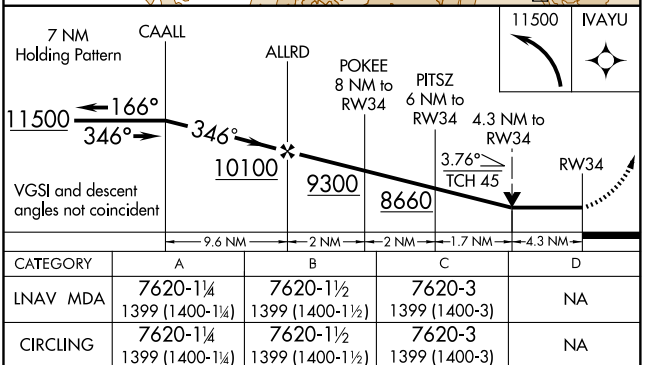
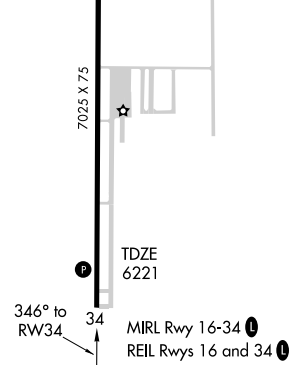
NA

DME/DME RNP-0.3 NA.
Circling NA east of Rwy 16-34
Visibility reduction by helicopters NA.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing left turn to 11500 direct IVAYU and hold.

AWOS-3 119.025	SALT LAKE CENTER 128.35 381.6	CASPER RADIO 122.3	UNICOM 122.8 (CTAF) ①
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Procedure NA for arrivals at MLD VOR/DME via V465 southwest bound and via V142 west bound.



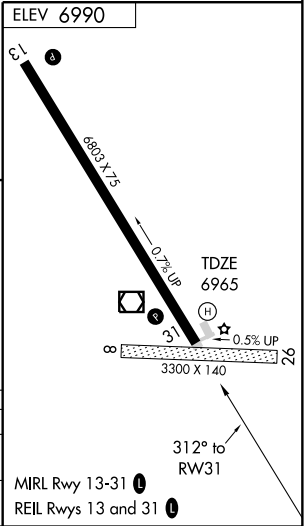
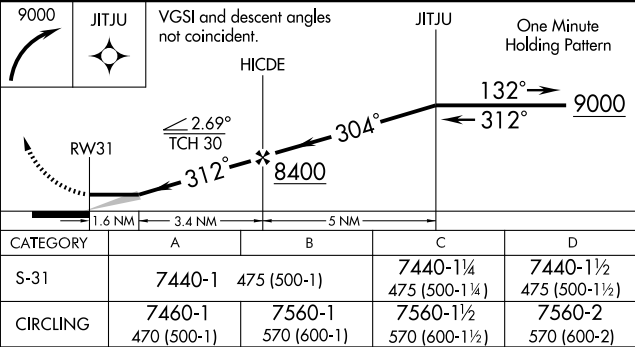
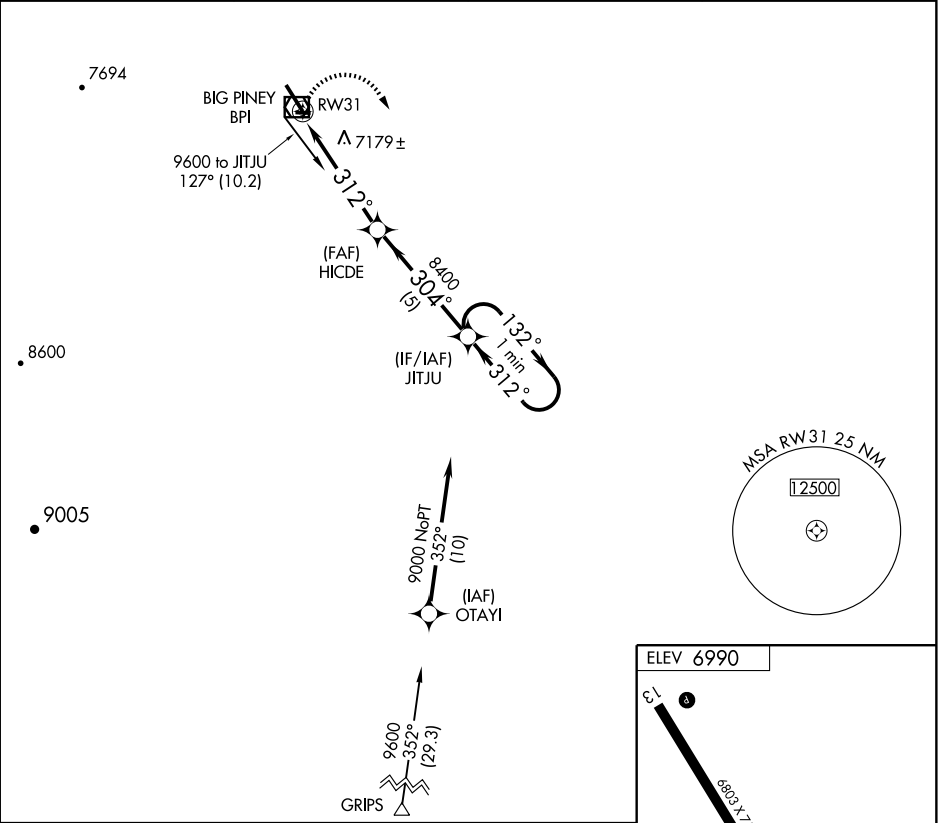
NW-1, 03 JUN 2010 to 01 JUL 2010

GPS RWY 31

BIG PINEY/ MILEY MEMORIAL FIELD (BPI)

APP CRS	Rwy Idg	6803
312°	TDZE	6965
	Apt Elev	6990

<div><div></div><div>NA</div></div>		MISSED APPROACH: Climbing right turn to 9000 direct JITJU and hold.	
ASOS 135.225	CASPER RADIO 122.3	UNICOM 122.8 (CTAF)	122.7 1



VOR/DME BPI 116.5 Chan 112	APP CRS 298°	Rwy Idg 6803 TDZE 6965 Apt Elev 6990
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VOR RWY 31

BIG PINEY/ MILEY MEMORIAL FIELD (BPI)



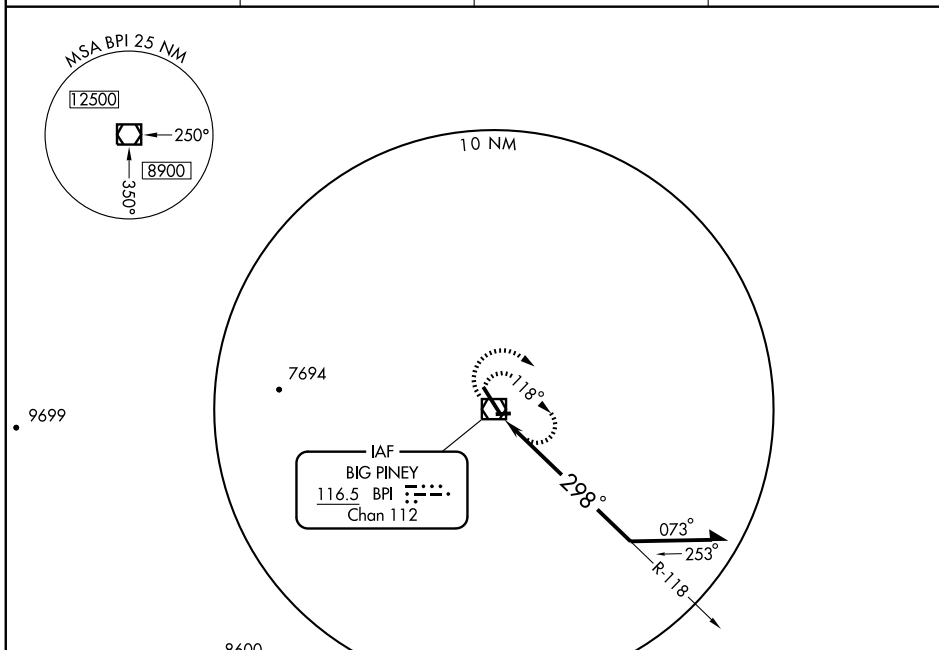
MISSED APPROACH: Climbing right turn to 10000 on BPI R-118, then return to BPI VOR/DME and hold.

ASOS
135,225


CASPER RADIO
122.3

UNICOM
122.8 (CTAF)

122.7 L



10315

10000 BPI R-118	BPI  116.5
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VOR/DME

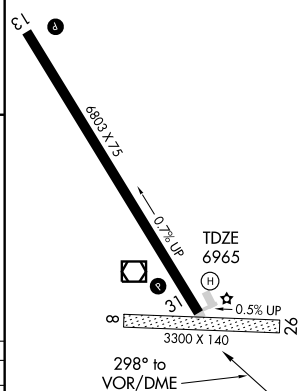
Remain
within 10 NM

© 1997

-298

CATEGORY	A	B	C	D
S-31	7680-1	715 (700-1)	7680-2 715 (700-2)	7680-2¼ 715 (700-2¼)
CIRCLING	7680-1	690 (700-1)	7680-2 690 (700-2)	7680-2¼ 690 (700-2¼)

ELEV 6990

MIRL Rwy 13-31 **L**

REIL Rwy 13 and 31 L

APP CRS	Rwy Idg	6143
306°	TDZE	4937
	Apt Elev	4968

RNAV (GPS) RWY 31

BUFFALO/JOHNSON COUNTY (BYG)

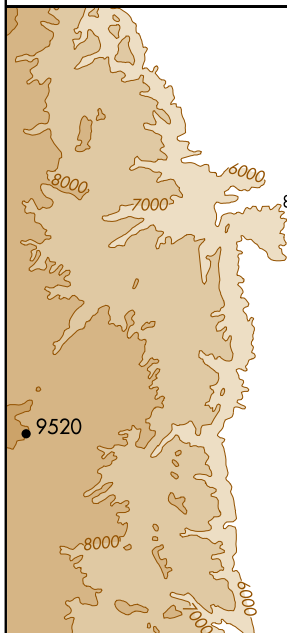
T Visibility reduction by helicopters NA. If local altimeter setting not received, use Sheridan altimeter setting and increase all MDAs 600 feet. DME/DME RNP-0.3 NA. Procedure NA at night.

MISSED APPROACH: Climbing right turn to 7400 direct ONECI and hold.

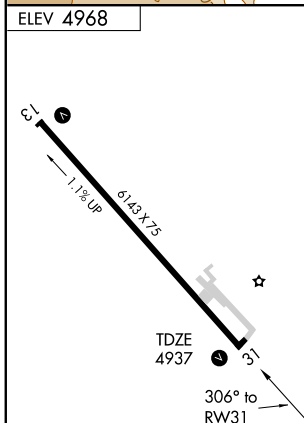
ASOS
135,425

CASPER RADIO
122.025

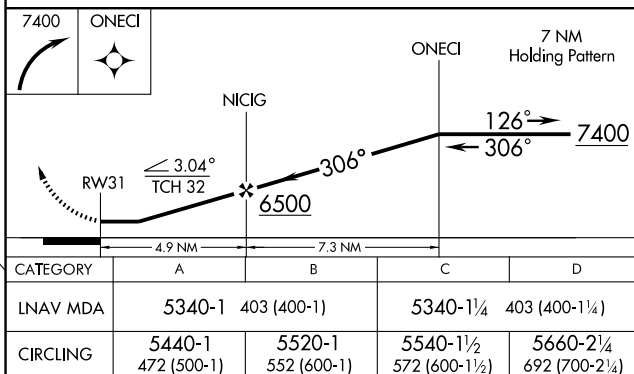
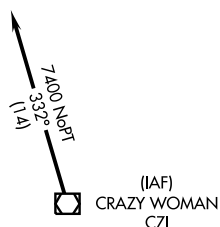
UNICOM
122.8 (CTAF) **L**



ELEV 4968



Procedure NA for arrivals at
CZI VOR/DME via V247
southbound.



NW-1. 03 JUN 2010 to 01 JUL 2010

REIL Rwy 31 **L**
MIRL Rwy 13-31 **L**

VOR/DME CZI 117.3 Chan 120	APP CRS 319°	Rwy Idg 6143 TDZE 4937 Apt Elev 4968
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VOR/DME RWY 31
BUFFALO/JOHNSON COUNTY (BYG)

T Visibility reduction by helicopters NA. If local altimeter setting not received, use Sheridan altimeter setting and increase all

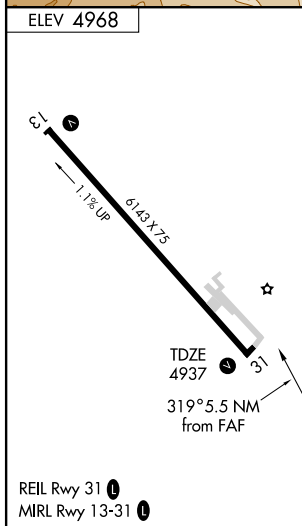
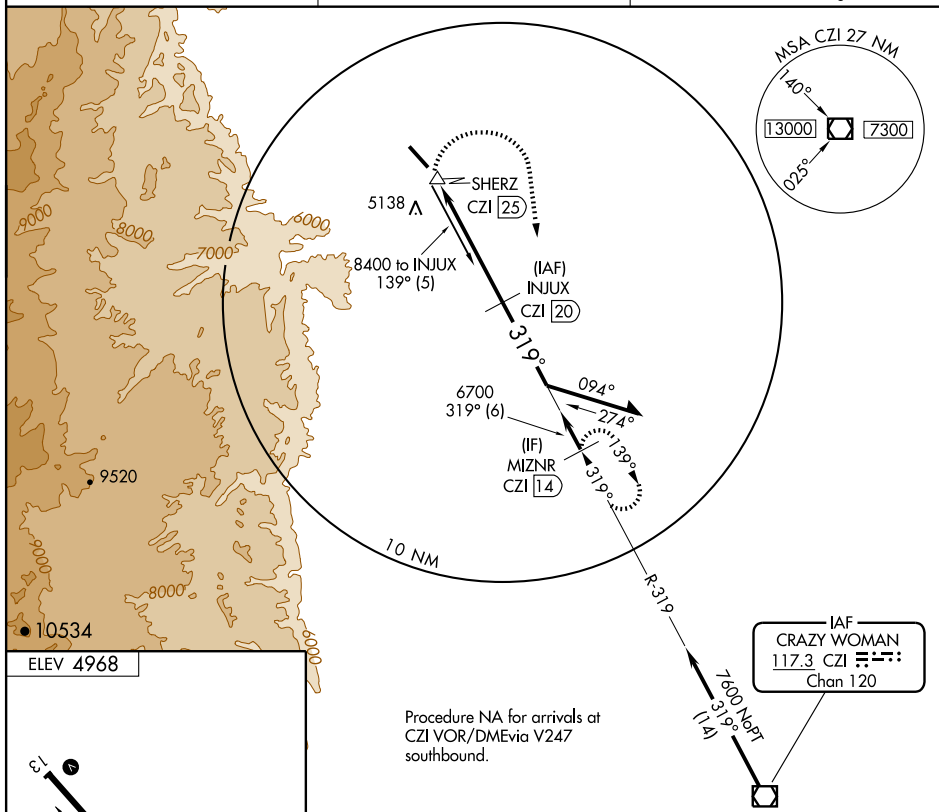
A MDAs 600 feet. When VGSI inoperative, procedure NA at night.

MISSED APPROACH: Climbing right turn to 7600 via heading 160° and CZI VOR/DME R-319 to MIZNR/14 DME and hold.

ASOS
135,425

CASPER RADIO
122.025

UNICOM
122.8 (CTAF) **L**

[illegible]

ALCOS THREE DEPARTURE

SL-72 (FAA)

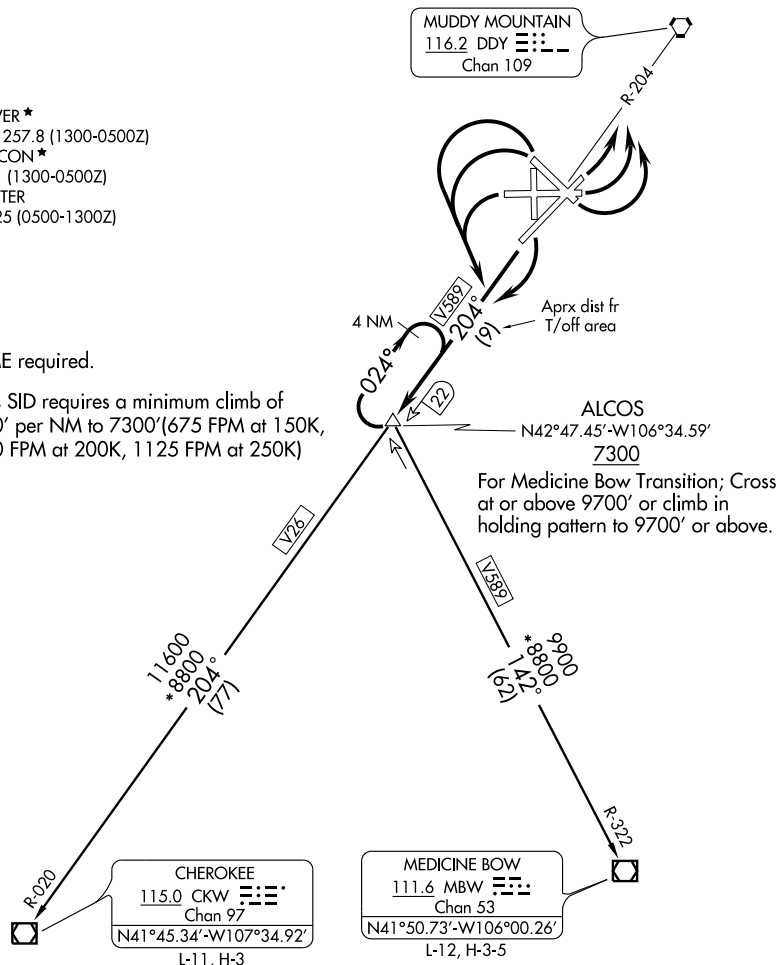
CASPER/NATRONA COUNTY INTL (CPR)

CASPER, WYOMING

ATIS 126.15
 CLNC DEL
 121.9 257.8
 GND CON
 121.9 257.8
 CASPER TOWER ★
 118.3 (CTAF) 257.8 (1300-0500Z)
 CASPER DEP CON ★
 120.65 354.1 (1300-0500Z)
 DENVER CENTER
 135.6 363.025 (0500-1300Z)

NOTE: DME required.

NOTE: This SID requires a minimum climb of
 270' per NM to 7300' (675 FPM at 150K,
 900 FPM at 200K, 1125 FPM at 250K)



NOTE: Chart not to scale.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 17: Turn right, thence. . .

ALL OTHER RUNWAYS: Turn left, thence. . .

. . . climb via DDY R-204 to cross ALCOS INT at or above 7300', then via (transition) or (assigned route).

CHEROKEE TRANSITION (ALCOS3.CKW): Via DDY R-204 and V26 to CKW VOR/DME.

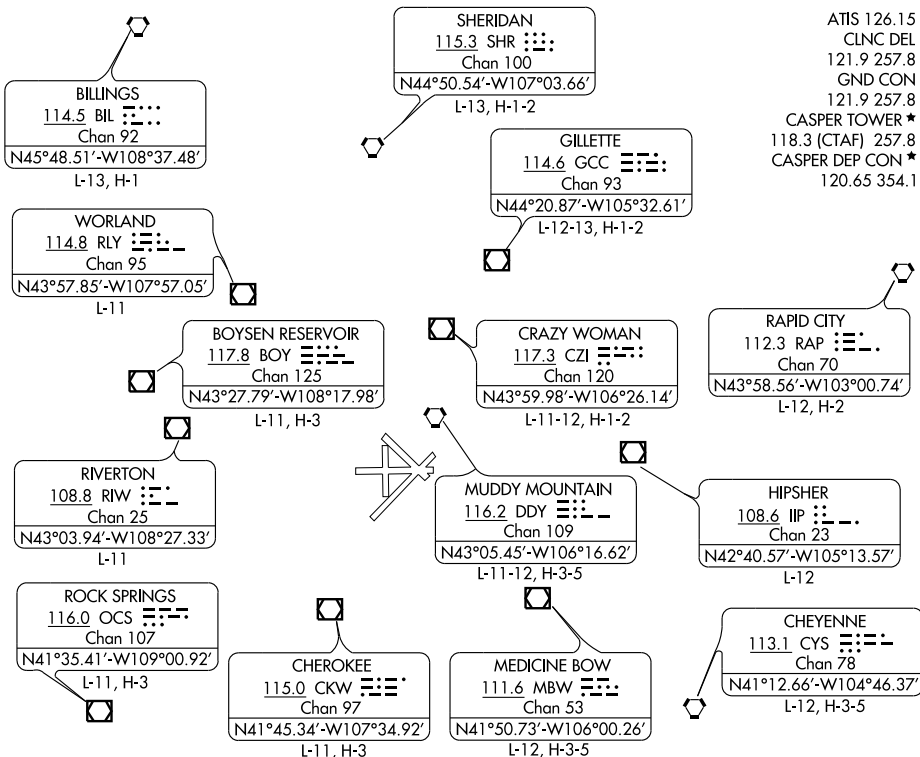
MEDICINE BOW TRANSITION (ALCOS3.MBW): Via MBW R-322 to MBW VOR/DME.
 Cross ALCOS INT at or above 9700' or climb in holding pattern to 9700' or above.

CASPER TWO DEPARTURE

SL-72 (FAA)

CASPER/NATRONA COUNTY INTL (CPR)

CASPER, WYOMING



TAKE-OFF MINIMUMS

Rwy 12, 17, 30, 35, NA- Environmental.

Rwy 3, 8, 26, Standard.

Rwy 21, Standard with a minimum climb of 235 feet per NM to 6700.

NOTE: RADAR required.

NOTE: Chart not to scale.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 3: Climb on a heading between 212° CW 094° from DER as assigned by ATC thence . . .

TAKE-OFF RUNWAY 8: Climb on a heading between 257° CW 094° from DER as assigned by ATC thence . . .

TAKE-OFF RUNWAY 21: Climb on a heading between 195° CW 032° from DER as assigned by ATC thence . . .

TAKE-OFF RUNWAY 26: Climb on a heading between 190° CW 077° from DER as assigned by ATC thence . . .

. . . Maintain 14000' or assigned lower altitude. Expect RADAR vectors to filed/assigned fix/route. Expect further clearance to filed altitude ten minutes after departure.

LOST COMMUNICATIONS

If no transmissions are received for one minute after departure, maintain assigned heading until 7,000 feet, then climb to filed altitude via direct DDY VORTAC, then via assigned route. Runways 3 and 8 turn left to DDY VORTAC, runways 21 and 26 turn right to DDY VORTAC.

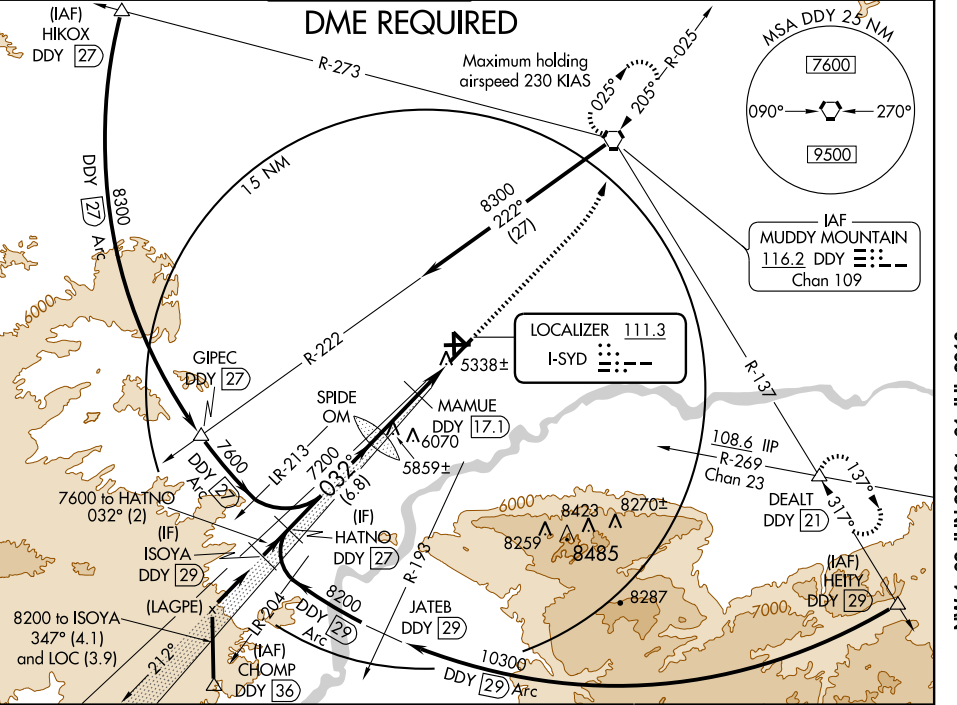
LOC I-SYD	APP CRS	Rwy Idg	10165
111.3	032°	TDZE	5328
		Apt Elev	5350

For inoperative MALS, increase S-ILS-3 Cat E visibility to RVR 4000, S-LOC-3 Cat E visibility to 3. MAMUE FIX MINIMUMS: For inoperative MALS, increase S-LOC-3 Cats D and E visibility to 1. DME from DDY VORTAC, simultaneous reception of I-SYD and DDY DME required. # RVR 1800 authorized with the use of FD or AP or HUD to DA.

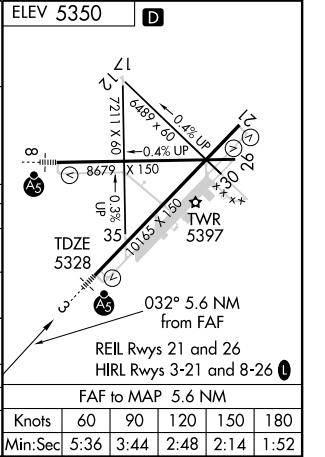
MALS

MISSED APPROACH: Climb to 7500 then left turn direct DDY VORTAC and hold. (TACAN aircraft continue climb to 12000 via DDY VORTAC R-137 to DEALT/DDY 21 DME and hold SE, right turn, 317° inbound).

ATIS	CASPER APP CON	CASPER TOWER	GND CON	CLNC DEL	CASPER RADIO	UNICOM
126.15	120.65 354.1	118.3 (CTAF) 257.8	121.9	121.9 257.8	122.4	122.95



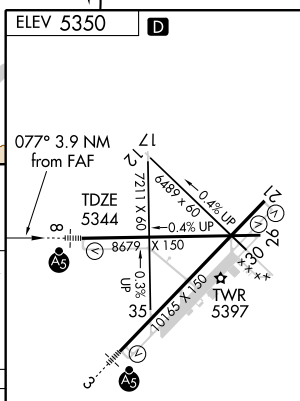
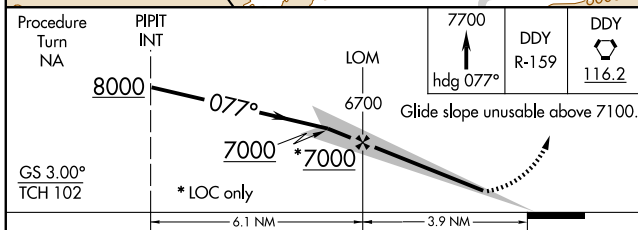
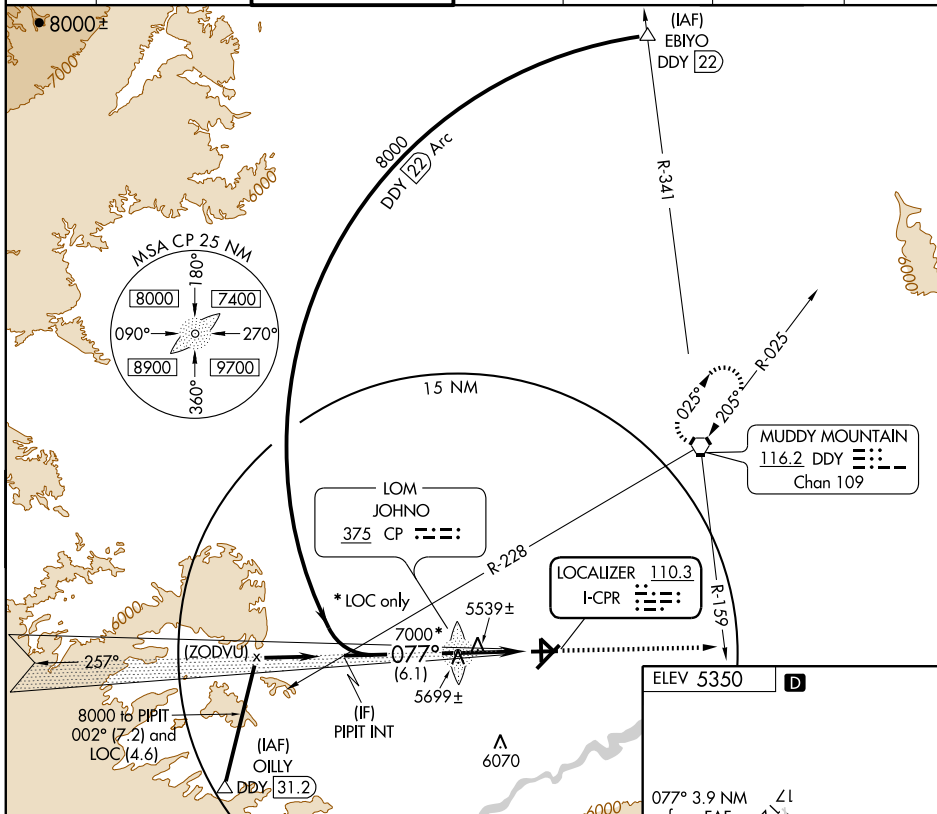
Procedure	ISOYA	HATNO	SPIDE OM	MAMUE	DDY
Turn	DDY 29	DDY 27		DDY 17.1	DDY 116.2
NA					
	8200	7600	7200	7188	7500
		032°			
					*LOC only
GS 3.00°					
TCH 53					
	2 NM	6.8 NM	3.2 NM	2.4 NM	
CATEGORY	A	B	C	D	E
S-ILS 3	# 5528/24 200 (200-½)				5528/24 200 (200-½)
S-LOC 3	6140/24 812 (800-½)	6140/40 812 (800-¾)	6140-2 812 (800-2)	6140-2 ½ 812 (800-2 ¼)	6140-2 ½ 812 (800-2 ½)
CIRCLING	6140-1 790 (800-1)	6140-1 ¼ 790 (800-1 ¼)	6140-2 ½ 790 (800-2 ½)	6140-2 ¾ 790 (800-2 ¾)	6220-3 870 (900-3)
MAMUE FIX MINIMUMS					
S-LOC 3	5600/24 272 (300-½)		5600/40 272 (300-¾)		
CIRCLING	5780-1 430 (500-1)	5800-1 450 (500-1)	5800-1 ½ 450 (500-1 ½)	5900-2 550 (600-2)	6220-3 870 (900-3)



LOC I-CPR <u>110.3</u>	APP CRS 077°	Rwy Idg 8679 TDZE 5344 Apt Elev 5350
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ILS or LOC RWY 8
CASPER/NATRONA COUNTY INTL (CPR)

<div><div></div><div>Inoperative table does not apply to S-ILS 8.</div></div>			<div><div>MALSR</div><div><div><div></div><div>A5</div></div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div>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CATEGORY	A	B	C	D
S-ILS 8	5644/40 300 (300-¾)			NA
S-LOC 8	5800/24 456 (500-½)		5800/40 456 (500-¾)	NA
CIRCLING	5800-1	450 (500-1)	5800-1½ 450 (500-1½)	NA

REIL Rwy 21 and 26 HIRL Rwy 3-21 and 8-26 L					
FAF to MAP 3.9 NM					
Knots	60	90	120	150	180
Min:Sec	3:54	2:36	1:57	1:34	1:18

WAAS CH 73006 W03A	APP CRS 032°	Rwy Idg TDZE Apt Elev 10165 5328 5350
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RNAV (GPS) RWY 3

CASPER/NATRONA COUNTY INTL (CPR)

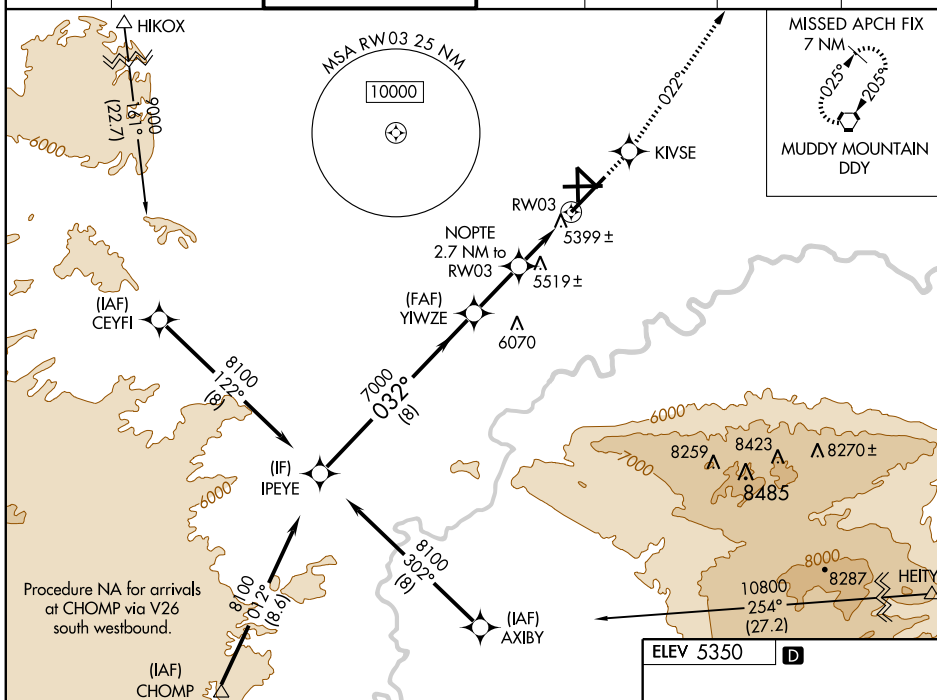
▼ For inoperative MALSR, increase LPV all Cats visibility to 1 mile.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -25°C (-13°F) or above 38°C (100°F).
DME/DME RNP-0.3 NA.

MALSR

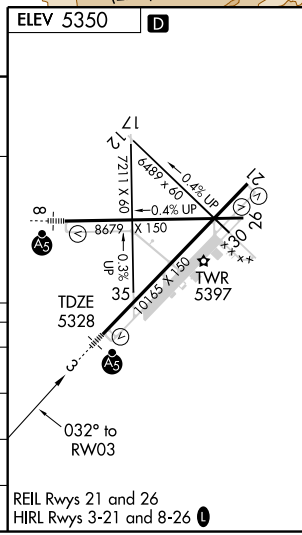


MISSED APPROACH: Climb to 7500
direct KIVSE and via track 022° to
DDY VORTAC and hold.

ATIS 126.15	CASPER APP CON* 120.65 354.1	CASPER TOWER* 118.3 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 121.9 257.8	CASPER RADIO 122.4	UNICOM 122.95
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IPEYE		YIWZE		NOPT		RWY 03	
8100		7000		7500		KIVSE	
GS 3.00°		032°		2.7 NM to RWY 03		track 022°	
TCH 52		7000		*1.3 NM to RWY 03		DDY	
8 NM		2.3 NM		1.4 NM		*LNAV only	
CATEGORY		A		B		C	
LPV DA		5643/24		315 (300-½)			
LNAV/VNAV DA		5691/40		363 (400-¾)			
LNAV MDA		5780/24		452 (500-½)		5780/40	
CIRCLING		5780-1		5800-1		5800-1½	
		430 (500-1)		450 (500-1)		450 (500-1½)	
						5900-2	
						550 (600-2)	

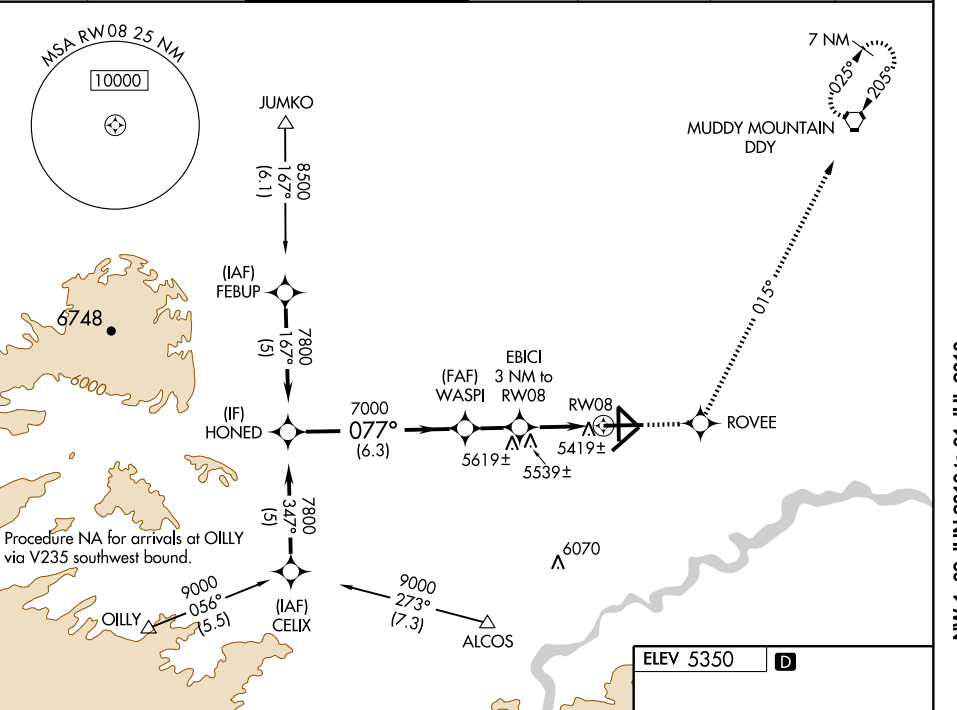


For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -25°C (-13°F) or above 38°C (100°F).
DME/DME RNP-0.3 NA.

MALS R

MISSED APPROACH: Climb to 7700 direct ROVEE and via track 015° to DDY VORTAC and hold.

ATIS 126.15	CASPER APP CON * 120.65 354.1	CASPER TOWER * 118.3 (CTAF) 0257.8	GND CON 121.9	CLNC DEL 121.9 257.8	CASPER RADIO 122.4	UNICOM 122.95
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Procedure Turn NA

HONED

VGSi and RNAV glidepath not coincident.

WASPI

EBICI 3 NM to RW08

*1.3 NM to RW08

RW08

7700

ROVEE

track 015°

DDY

*LNAV only

GS 3.00° TCH 55

6.3 NM

2 NM

1.7 NM

1.3 NM

*6360

CATEGORY	A	B	C	D
LPV DA	5594/24		250 (300-½)	
LNAV/VNAV DA	5689/40		345 (400-¾)	
LNAV MDA	5800/24	456 (500-½)	5800/40 456 (500-¾)	5800/50 456 (500-1)
CIRCLING	5800-1	450 (500-1)	5800-1½ 450 (500-1½)	5900-2 550 (600-2)

ELEV 5350

TDZE 5344

8679

5397

077° to RW08

015°

030°

045°

060°

075°

090°

105°

120°

135°

150°

165°

180°

195°

210°

225°

240°

255°

270°

285°

300°

315°

330°

345°

360°

REIL Rwy 21 and 26

HIRL Rwy 3-21 and 8-26

NW-1, 03 JUN 2010 to 01 JUL 2010

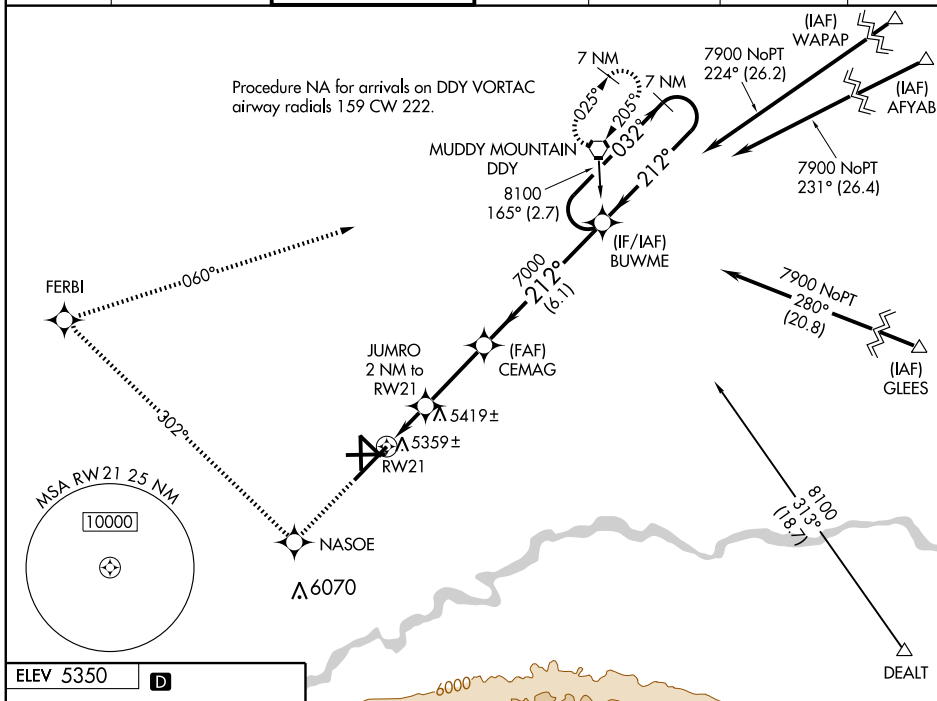
WAAS CH 63012 W21A	APP CRS 212°	Rwy Idg 10165 TDZE 5330 Apt Elev 5350
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RNAV (GPS) RWY 21
CASPER/NATRONA COUNTY INTL (CPR)

T For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -25°C (-13°F) or above 38°C (100°F).
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 8100 direct NASOE and right turn via track 302° to FERBI and via track 060° to DDY VORTAC and hold.

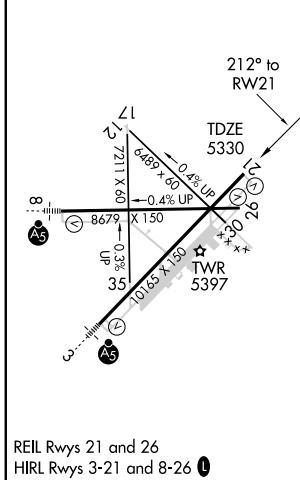
ATIS 126.15	CASPER APP CON ★ 120.65 354.1	CASPER TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 121.9 257.8	CASPER RADIO 122.4	UNICOM 122.95
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NW-1. 03 JUN 2010 to 01 JUL 2010

ELEV 5350

D

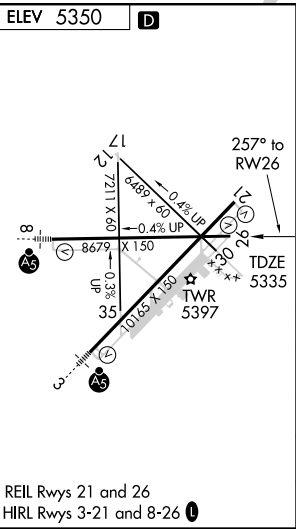
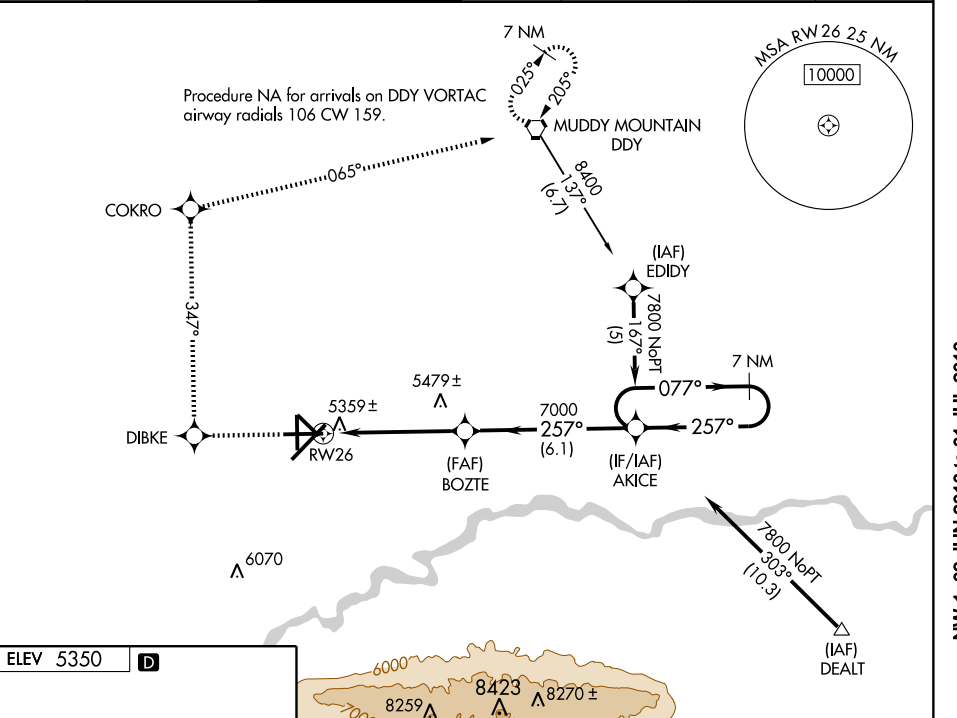


8100 ↑	NASOE ✦	track 302° ↗	FERBI ✦	track 060° →	DDY ◡	BUWME	7 NM Holding Pattern
* LNAV only		JUMRO 2 NM to RW21		CEMAG			
CATEGORY	A	B	C	D			
LPV DA	5580-3/4 250 (300-3/4)						
LNAV/VNAV DA	5629-1 299 (300-1)						
LNAV MDA	5680-1 350 (400-1)			5680-1 350 (400-1 1/4)			
CIRCLING	5780-1 430 (500-1)	5800-1 450 (500-1)	5800-1 1/2 450 (500-1 1/2)	5900-2 550 (600-2)			

▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -25°C (-13°F) or above 38°C (100°F).
DME/DME RNP-0.3 NA.

MISSED APPROACH: Climb to 8400 direct DIBKE and right turn via track 347° to COKRO and via track 065° to DDY VORTAC and hold.

ATIS 126.15	CASPER APP CON ★ 120.65 354.1	CASPER TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 121.9 257.8	CASPER RADIO 122.4	UNICOM 122.95
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8400	DIBKE	COKRO	DDY	AKICE	7 NM Holding Pattern
↑	track 347°	track 065°			
*LNAV only					
*1.2 NM to RW26					
1.2 NM 3.9 NM 6.1 NM					
BOZTE	AKICE				
	077° 7800				
	257°				
	7000				
	GS 3.00° TCH 40				
CATEGORY	A	B	C	D	
LPV DA	5585-1 250 (300-1)				
LNAV/VNAV DA	5629-1 294 (300-1)				
LNAV MDA	5740-1	405 (400-1)	5740-1¼	405 (400-1¼)	
CIRCLING	5780-1 430 (500-1)	5800-1 450 (500-1)	5800-1½ 450 (500-1½)	5900-2 550 (600-2)	

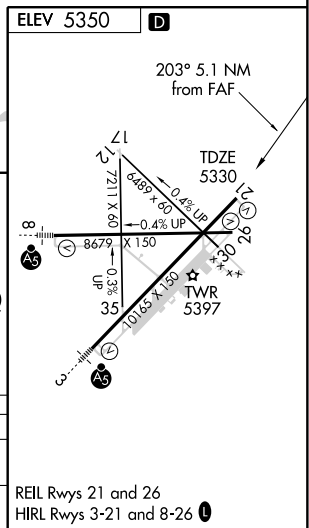
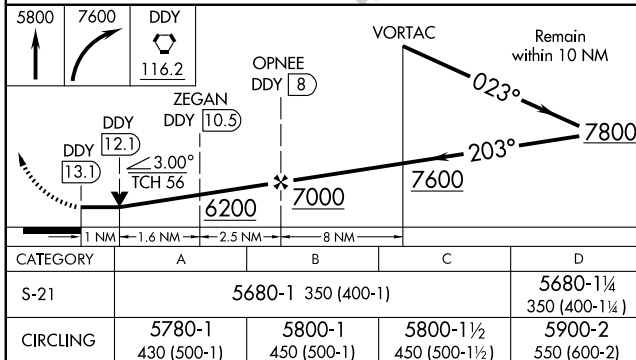
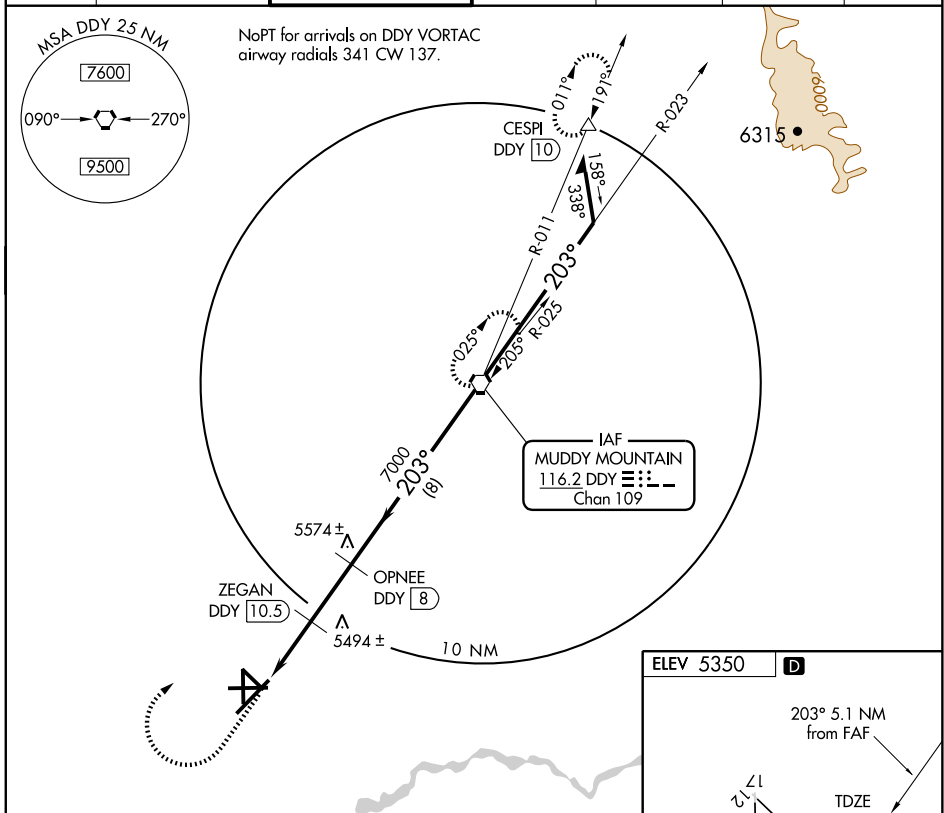
AL-72 (FAA)

VORTAC DDY <u>116.2</u> Chan 109	APP CRS 203°	Rwy Idg 10165 TDZE 5330 Apt Elev 5350
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VOR/DME or TACAN RWY 21
CASPER/NATRONA COUNTY INTL (CPR)

MISSED APPROACH: Climb to 5800, then climbing right turn to 7600 direct DDY VORTAC and hold (TACAN aircraft continue climb to 8000 via DDY VORTAC R-011 to CESPI/10 DME and Hold N, RT, 191° inbound).

ATIS	CASPER APP CON ★	CASPER TOWER ★	GND CON	CLNC DEL	CASPER RADIO	UNICOM
126.15	120.65 354.1	118.3 (CTAF) 0 257.8	121.9	121.9 257.8	122.4	122.95



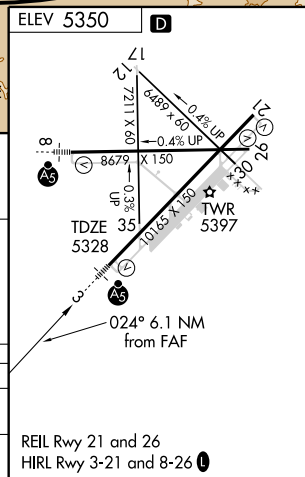
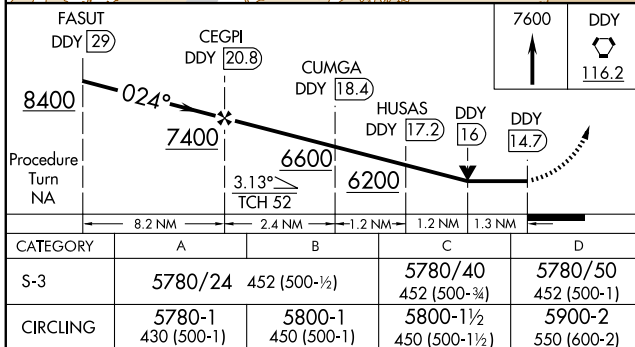
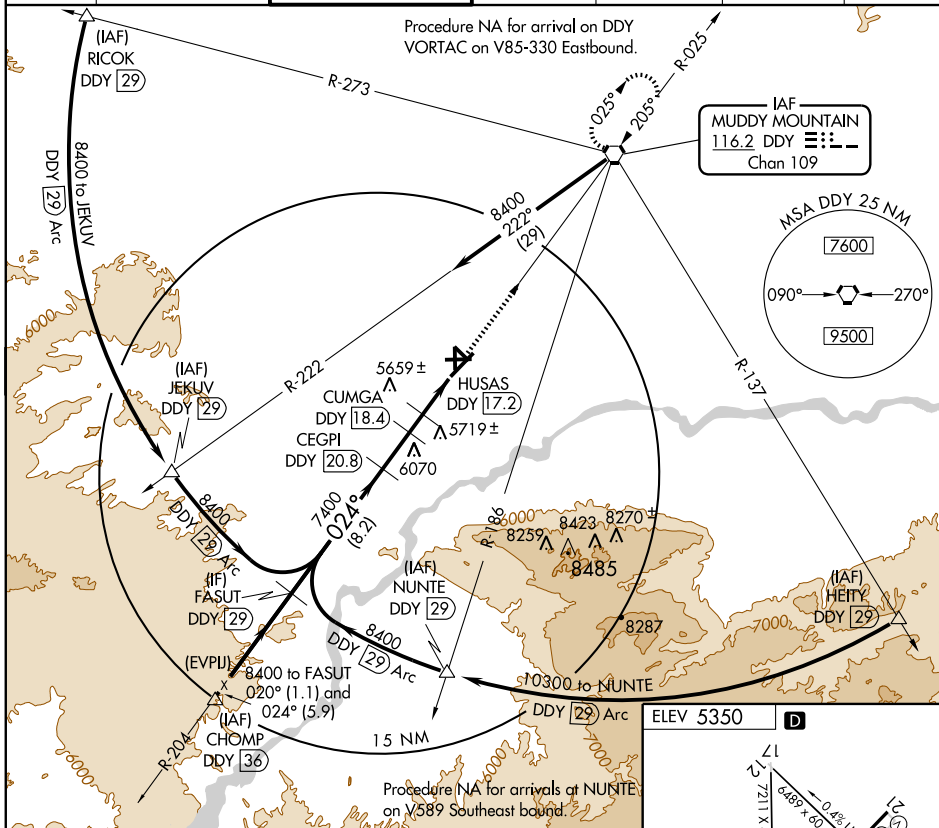
NW-1. 03 JUN 2010 to 01 JUL 2010

VORTAC DDY 116.2 Chan 109	APP CRS 024°	Rwy Idg TDZE Apt Elev 10165 5328 5350
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VOR/DME RWY 3

CASPER/NATRONA COUNTY INTL (CPR)

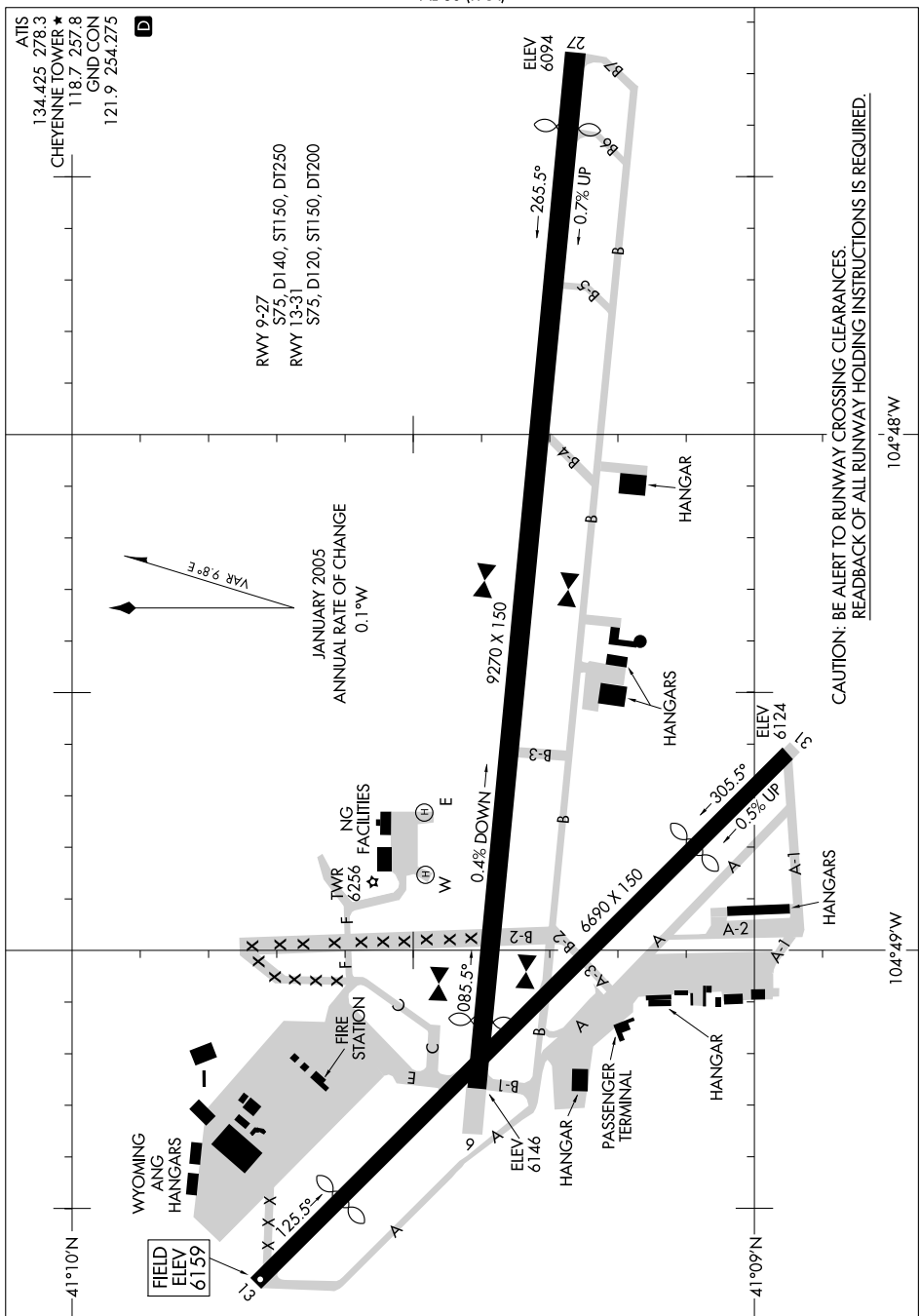
MALSR MISSED APPROACH: Climb to 7600 direct DDY VORTAC and hold.							
ATIS 126.15	CASPER APP CON ★ 120.65 354.1	CASPER TOWER ★ 118.3 (CTAF) 0 257.8	GND CON 121.9	CLNC DEL 121.9 257.8	CASPER RADIO 122.4	UNICOM 122.95	



AIRPORT DIAGRAM

AL-80 (FAA)

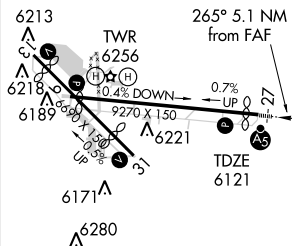
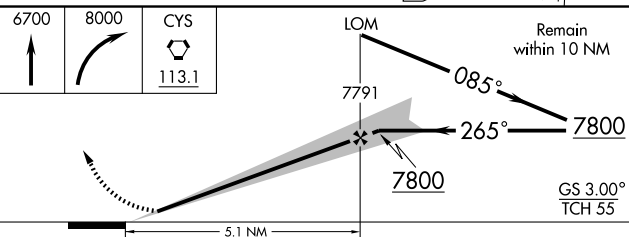
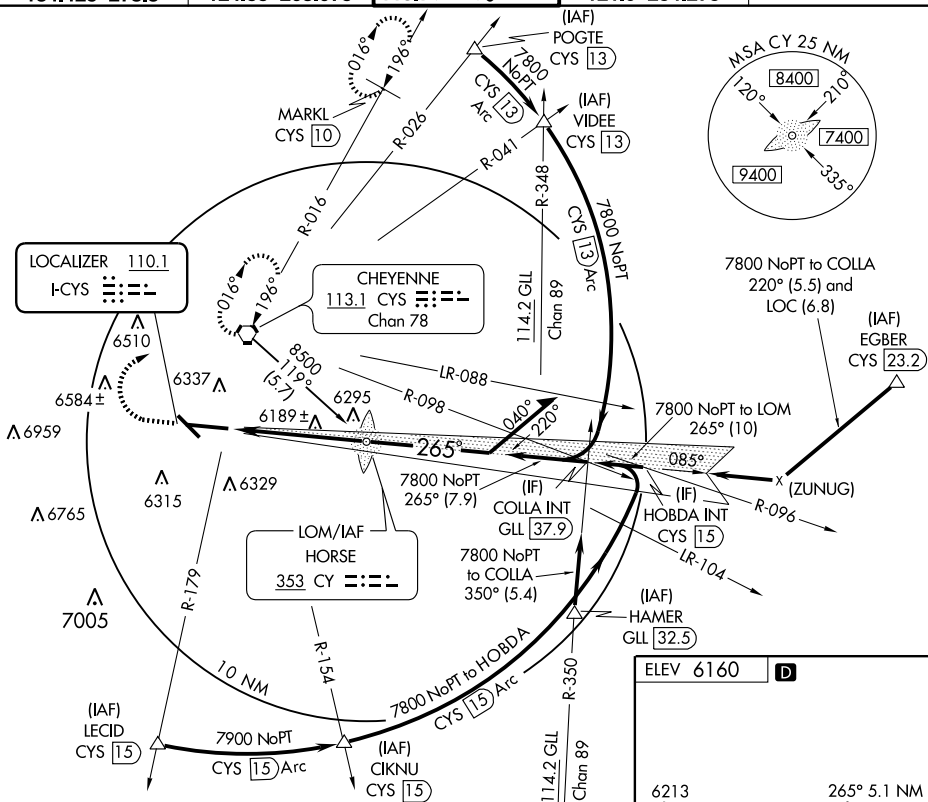
CHEYENNE RGNL/JERRY OLSON FIELD (CYS)
CHEYENNE, WYOMING



NW-1. 03 JUN 2010 to 01 JUL 2010

ILS or LOC RWY 27
CHEYENNE RGNL/JERRY OLSON FIELD (CYS)

MISSED APPROACH: Climb to 6700, then climbing right turn to 8000 direct CYS VORTAC and hold. (TACAN aircraft continue via CYS R-016 to MARKL/10 DME and hold N, RT, 196° inbound.)

UNICOM
122.95

CATEGORY	A	B	C	D
S-ILS 27	*6321/24 200 (200-½)			
S-LOC 27	6440/24 319 (300-½)			6440/40 319 (300-¾)
CIRCLING	6660-1	500 (500-1)	6660-1½ 500 (500-1½)	6720-2 560 (600-2)

REIL Rwy 9, 13 and 31 **1**
HIRL Rwy 9-27 **1**
MIRL Rwy 13-31 **1**

FAF to MAP 5.1 NM					
Knots	60	90	120	150	180
Min:Sec	5:06	3:24	2:33	2:02	1:42

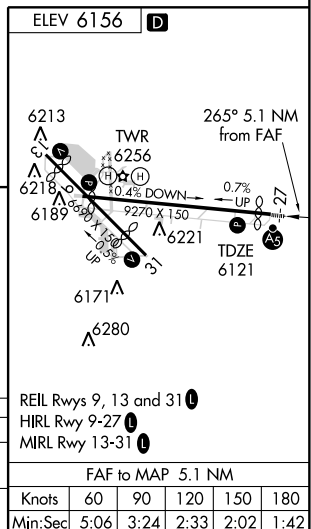
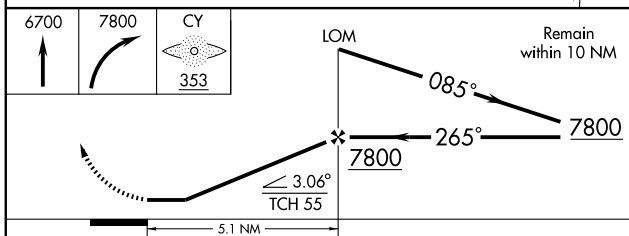
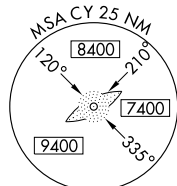
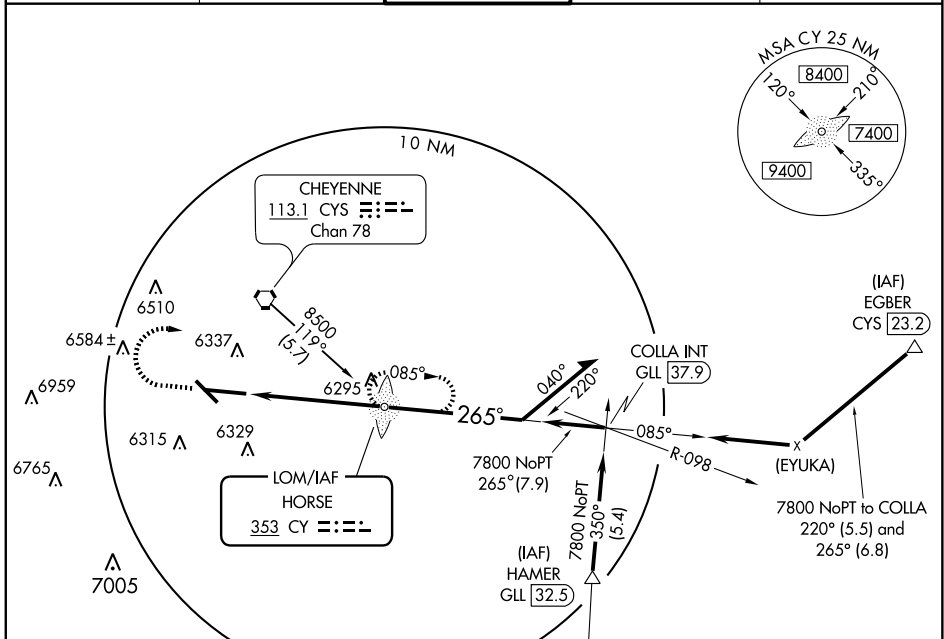
LOM CY 353	APP CRS 265°	Rwy Idg TDZE Apt Elev	7985 6121 6156
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NDB RWY 27

CHEYENNE RGNL/JERRY OLSON FIELD (CYS)

 ASR/PAR	MALSR 	MISSED APPROACH: Climb to 6700, then climbing right turn to 7800 direct HORSE LOM and hold.
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ATIS 134.425 278.3	CHEYENNE APP CON 124.55 263.075	CHEYENNE TOWER ★ 118.7 (CTAF) 0 257.8	GND CON 121.9 254.275	UNICOM 122.95
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WAAS CH 73009 W09A	APP CRS 085°	Rwy Idg TDZE Apt Elev	7985 6143 6159
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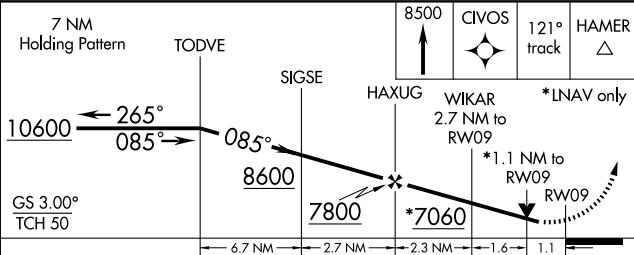
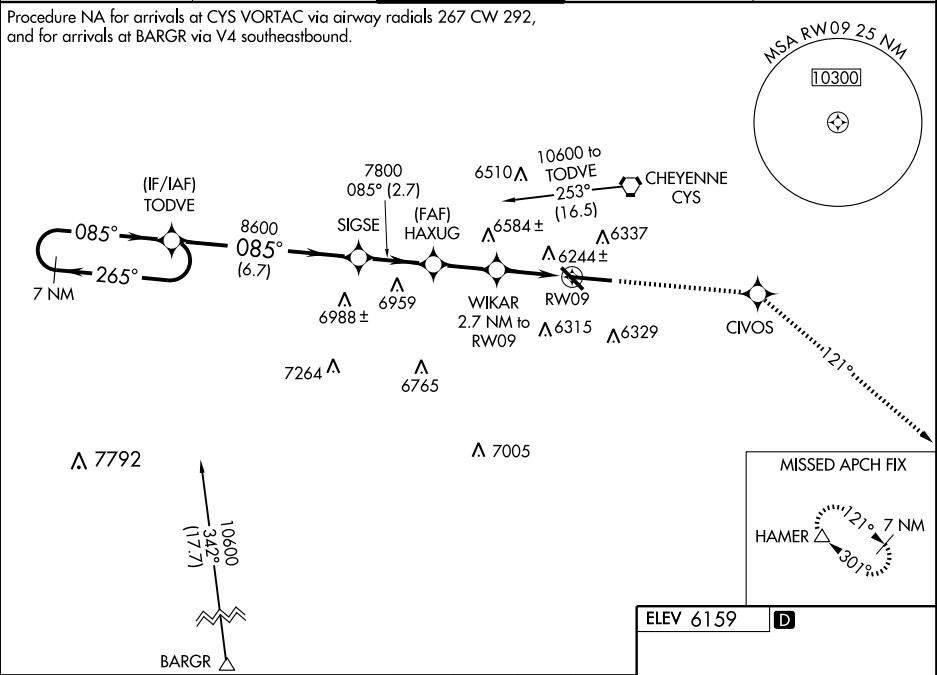
RNAV (GPS) RWY 9
CHEYENNE RGNL/JERRY OLSON FIELD (CYS)

ASR/PAW

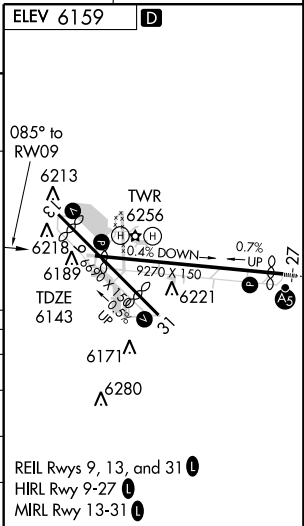
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -27°C (-16°F) or above 36°C (96°F).
DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use Laramie altimeter setting and increase all DA 251 feet, all MDA 260 feet, and all visibilities ¾ mile.
VDP and Baro-VNAV NA when using Laramie altimeter setting.

MISSED APPROACH: Climb to 8500 direct CIVOS and via 121° track to HAMER and hold.

ATIS 134.425 278.3	CHEYENNE APP CON 124.55 263.075	CHEYENNE TOWER * 118.7 (CTAF) 0 257.8	GND CON 121.9 254.275	UNICOM 122.95
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CATEGORY	A	B	C	D
LPV DA	6473-1¼ 330 (400-1¼)			
LNAV/VNAV DA	6542-1½ 399 (400-1½)			
LNAV MDA	6540-1 397 (400-1)			6540-1¼ 397 (400-1¼)
CIRCLING	6660-1 501 (600-1)		6660-1½ 501 (600-1½)	6720-2 561 (600-2)



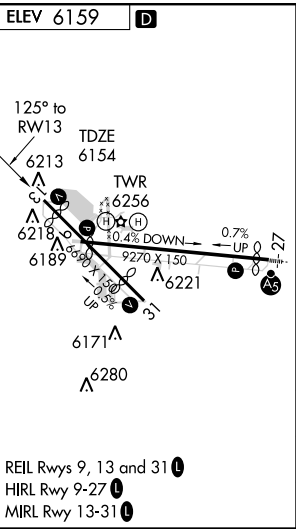
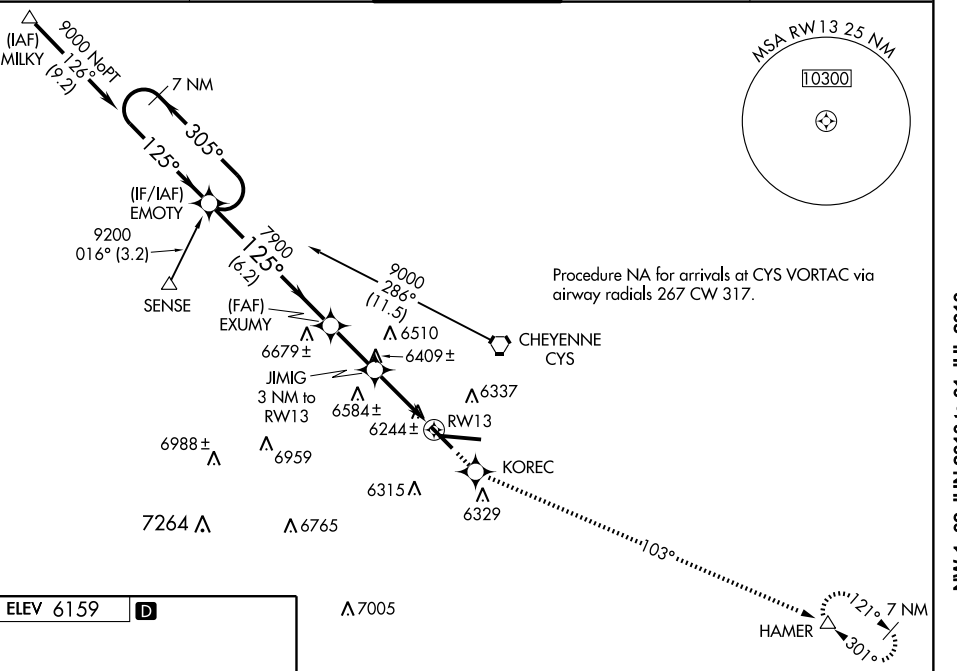
▼

▲

Baro-VNAV NA when using Laramie altimeter setting.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -27°C (-16°F) or above 36°C (96°F).
DME/DME RNP -0.3 NA. Visibility reduction by helicopters NA.
When local altimeter setting not received, use Laramie altimeter setting and increase all DA/MDA 260 feet and all visibilities 1 mile.

MISSED APPROACH: Climb to 8500 direct KOREC and via 103° track to HAMER and hold.

ATIS 134.425 278.3	CHEYENNE APP CON 124.55 263.075	CHEYENNE TOWER ★ 118.7 (CTAF) 0 257.8	GND CON 121.9 254.275	UNICOM 122.95
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VGSI and RNAV glidepath not coincident				8500 ↑	KOREC ✦	103° track	HAMER △
7 NM Holding Pattern							
EMOTY				*LNAV only			
9000 ← 305° 125° →				JIMIG 3 NM to RW13			
GS 3.00° TCH 55				RW13			
7900				*7160			
6.2 NM				2.2 NM 3 NM			
CATEGORY	A	B	C	D			
LPV DA	6481-1 327 (400-1)						
LNAV/ VNAV DA	6539-1¼ 385 (400-1¼)						
LNAV MDA	6660-1 506 (600-1)			6660-1½ 506 (600-1½)			
CIRCLING	6660-1 501 (600-1)			6660-1½ 501 (600-1½)		6720-2 561 (600-2)	

REIL Rwy 9, 13 and 31

HIRL Rwy 9-27

MIRL Rwy 13-31

WAAS CH 70307 W27A	APP CRS 265°	Rwy Idg 7985 TDZE 6121 Apt Elev 6160
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RNAV (GPS) RWY 27

CHEYENNE RGNL/JERRY OLSON FIELD (CYS)

T Baro-VNAV NA below -27°C (-16°F).
ASR/PAR DME/DME RNP-0.3 NA.

MALSR

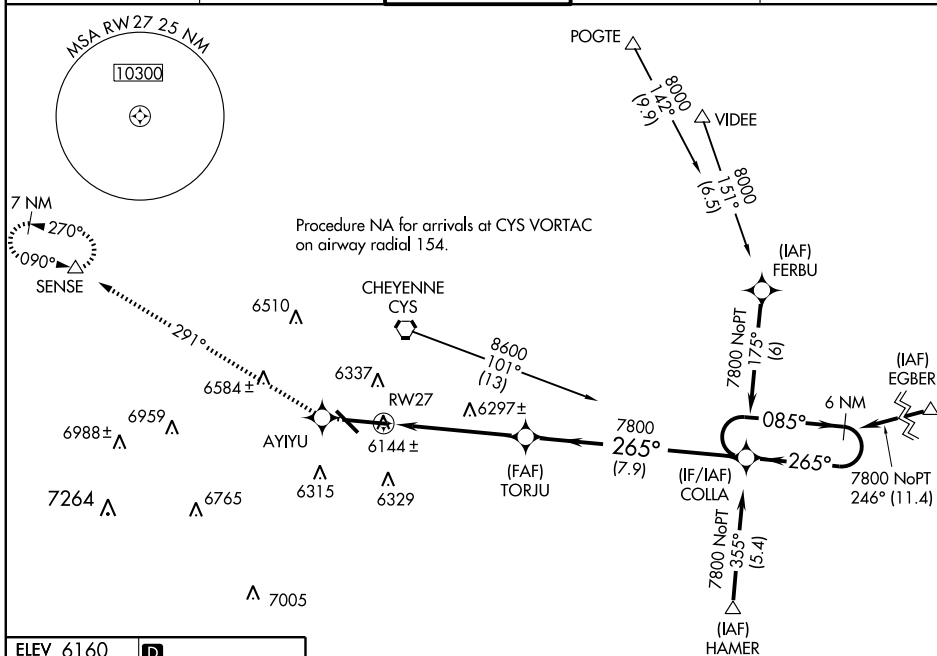
MISSED APPROACH: Climb to 10300 direct AYIU and via 291° track to SENSE and hold, continue climb-in-hold to 10300.

ATIS
134.425 278.3

CHEYENNE APP CON
124.55 263.075

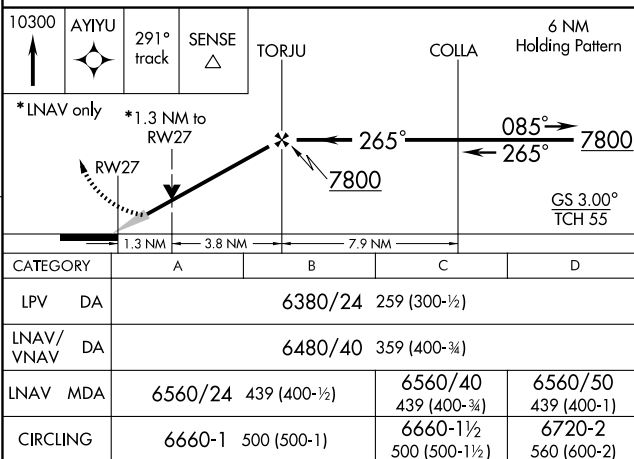
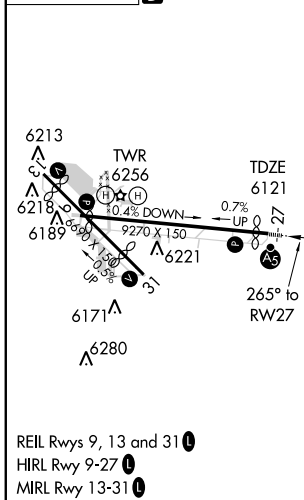
CHEYENNE TOWER★
118.7 (CTAF) **L** 257.8

GND CON
121.9 254.275

UNICOM
122.95

NW-1. 03 JUN 2010 to 01 JUL 2010

ELEV 6160	D
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▼

▲

ASR/PAR

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -27°C (-16°F) or above 36°C (96°F).
DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
VDP and Baro-VNAV NA when using Laramie altimeter setting.
When local altimeter setting not received, use Laramie altimeter setting and increase all DA/MDA 260 feet and all visibilities ¾ mile.

MISSED APPROACH: Climb to 10300 direct IVUCI and via 287° track to SENSE and hold, continue climb-in-hold to 10300.

ATIS 134.425 278.3	CHEYENNE APP CON 124.55 263.075	CHEYENNE TOWER ★ 118.7 (CTAF) 0 257.8	GND CON 121.9 254.275	UNICOM 122.95
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ELEV 6159 **D**

10300	IVUCI	287° track	SENSE	VGSI and RNAV glidepath not coincident.						
				LORYI	ZORIS	7 NM Holding Pattern				
*LNAV only				125° → 7800						
*1.4 NM to RWY31				← 305°						
RWY31				GS 3.00°						
				TCH 55						
CATEGORY	A	B	C	D						
LPV DA	6397-1 250 (300-1)									
LNAV/VNAV DA	6545-1½ 398 (400-1½)									
LNAV MDA	6600-1	453 (500-1)	6600-1¼	6600-1½	453 (500-1½)					
CIRCLING	6660-1	501 (600-1)	6660-1½	6720-2	501 (600-1½)	561 (600-2)				

NW-1, 03 JUN 2010 to 01 JUL 2010

CHEYENNE, WYOMING

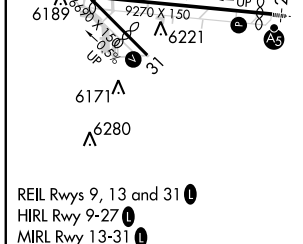
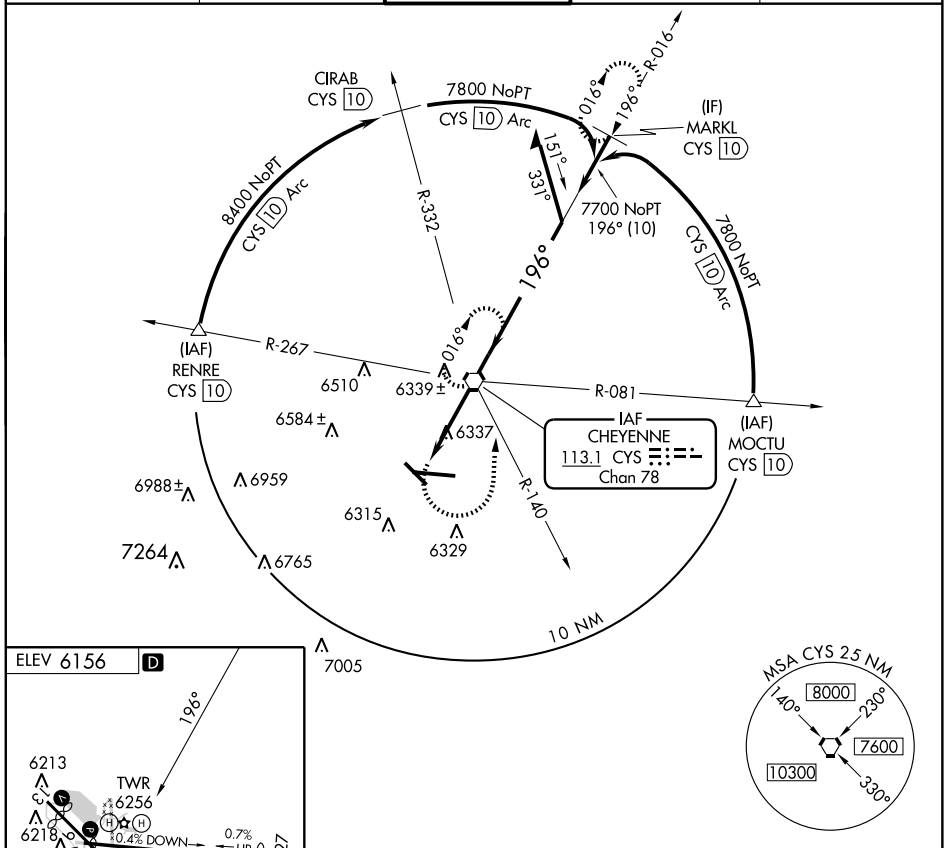
AL-80 (FAA)

VORTAC CYS 113.1 Chan 78	APP CRS 196°	Rwy Idg TDZE Apt Elev 6156	N/A N/A 6156
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VOR or TACAN-A

CHEYENNE RGNL/JERRY OLSON FIELD (CYS)

ASR/PAR	MISSED APPROACH: Climbing left turn to 8000 via heading 350° and CYS VORTAC R-140 to CYS VORTAC and hold, continue climb-in-hold to 8000 (TACAN aircraft continue via CYS R-016 to MARKL/10 DME and hold N, RT, 196° inbound.)			
	ATIS 134.425 278.3	CHEYENNE APP CON 124.55 263.075	CHEYENNE TOWER ★ 118.7 (CTAF) 257.8	GND CON 121.9 254.275
				UNICOM 122.95



FAF to MAP 3.3 NM						CATEGORY		A	B	C	D
Knots	60	90	120	150	180	CIRCLING		6660-1	504 (600-1)	6660-1½ 504 (600-½)	6720-2 564 (600-2)
Min:Sec	3:18	2:12	1:39	1:19	1:06						

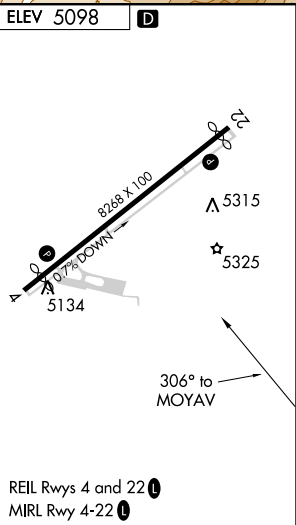
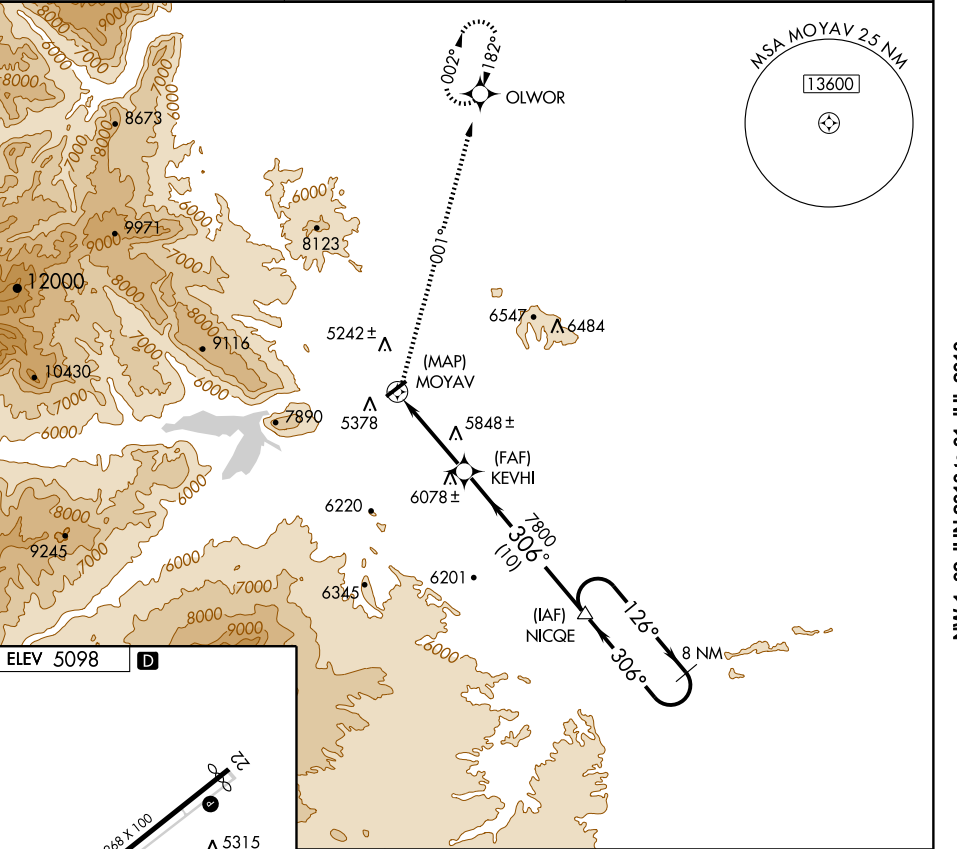
NW-1, 03 JUN 2010 to 01 JUL 2010


▼

▲ NA

MISSED APPROACH: Climbing right turn to 6800 via 001° course to OLWOR WP and hold.

AWOS-3 135.075	SALT LAKE CENTER 133.25 285.6	UNICOM 122.8 (CTAF) 0
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<div><div><div>6800</div><div>OLWOR</div><div></div></div><div><div>NICQE</div><div>8 NM Holding Pattern</div><div><div>126°→</div><div>←306°</div><div>9600</div></div></div></div>				
<div><div><div>MOYAV</div><div>KEVHI</div><div>7800</div></div><div><div>306°</div><div>10 NM</div></div></div>				
<div><div>5.6 NM</div></div>				
CATEGORY	A	B	C	D
CIRCLING	6100-1¼ 1002 (1100-1¼)	6100-1½ 1002 (1100-1½)	6100-3	1002 (1100-3)

NW-1. 03 JUN 2010 to 01 JUL 2010

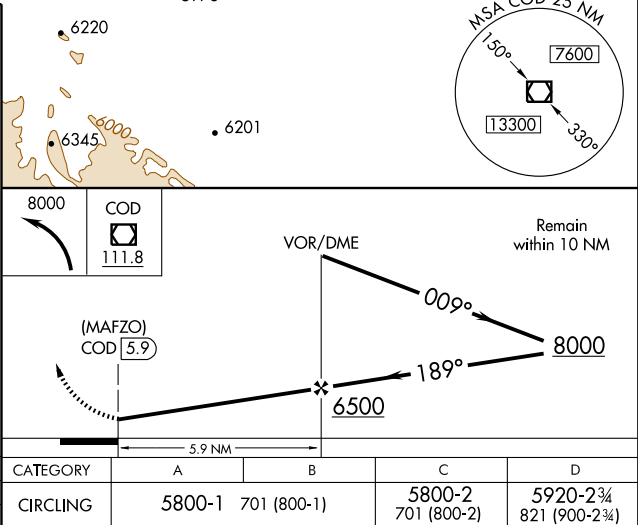
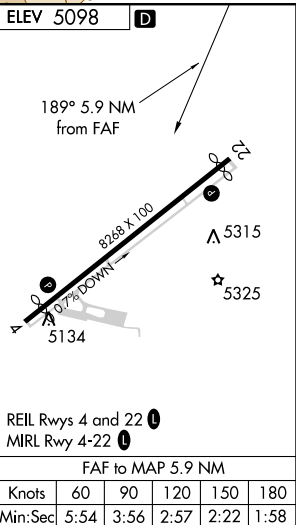
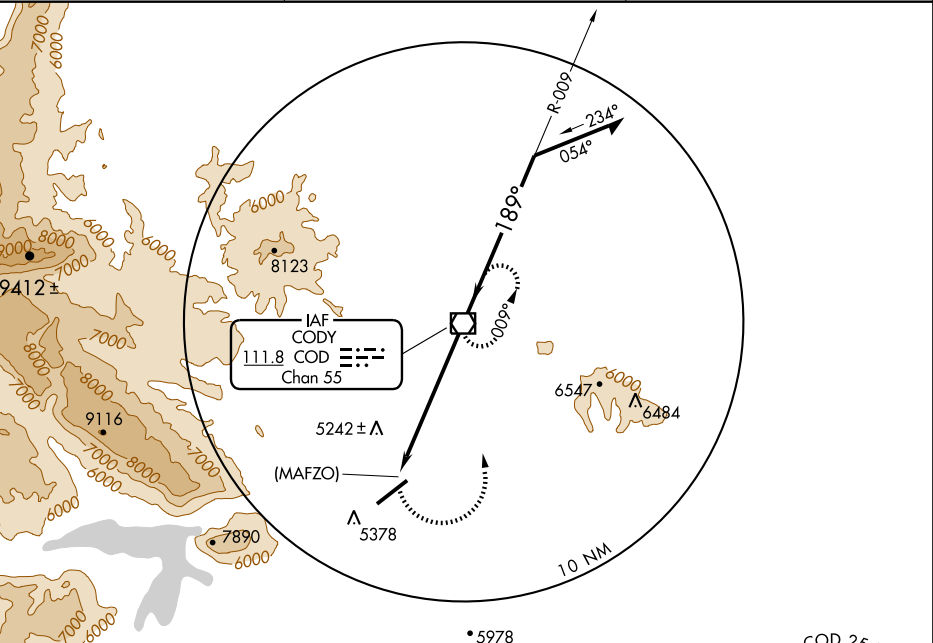
VOR/DME COD 111.8 Chan 55	APP CRS 189°	Rwy Idg TDZE Apt Elev 5098	N/A N/A 5098
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MISSED APPROACH: Climbing left turn to 8000 direct COD VOR/DME and hold.

AWOS-3 135.075	SALT LAKE CENTER 133.25 285.6	UNICOM 122.8 (CTAF) 0
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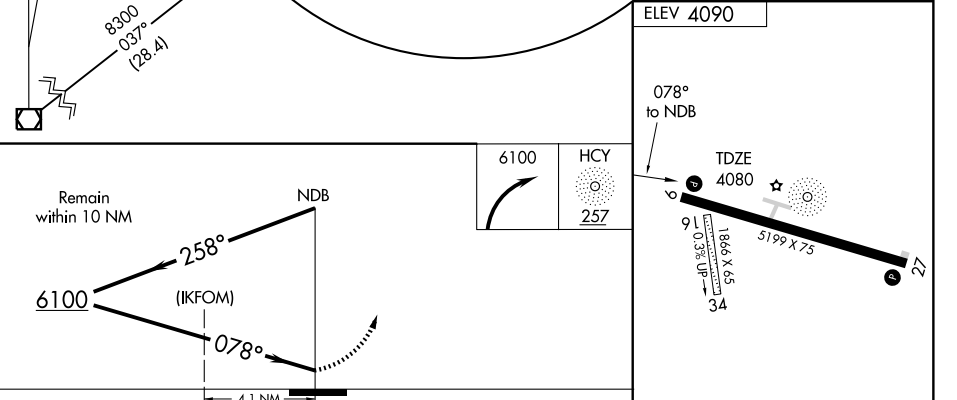
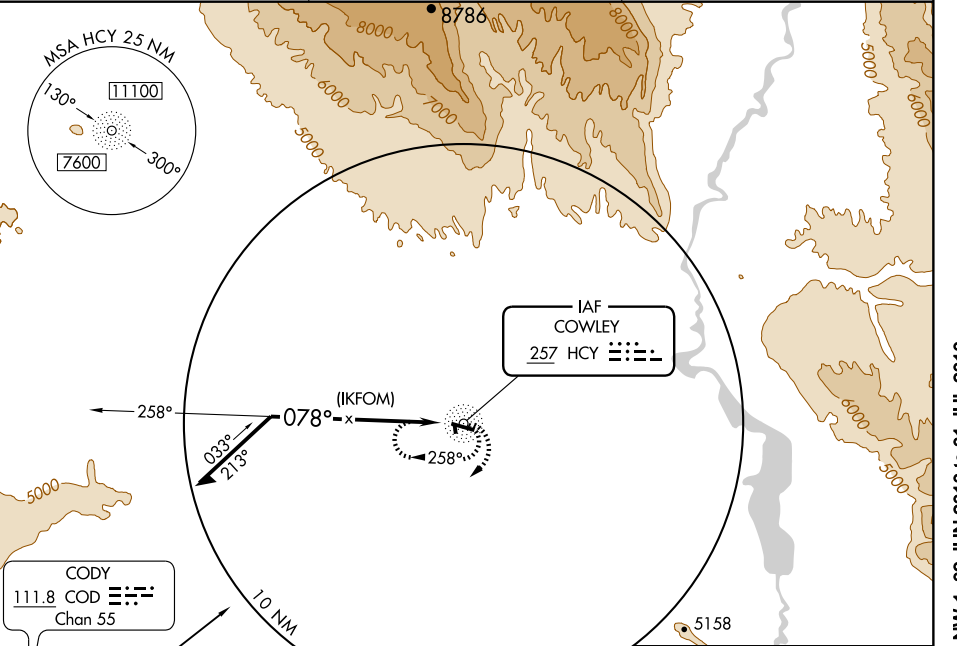
▼

NA

Obtain local altimeter setting on CTAF;
when not received, procedure NA.

MISSED APPROACH: Climbing right turn to 6100
in HCY NDB holding pattern.

AWOS-3 119.925	SALT LAKE CENTER 133.25 285.6	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-9	4860-1 780 (800-1)	4860-1¼ 780 (800-1¼)	4860-2¼ 780 (800-2¼)	4860-2½ 780 (800-2½)
CIRCLING	4860-1 770 (800-1)	4860-1¼ 770 (800-1¼)	4860-2¼ 770 (800-2¼)	4860-2½ 770 (800-2½)

REIL Rwy 9 and 27 0
MRL Rwy 9-27 0

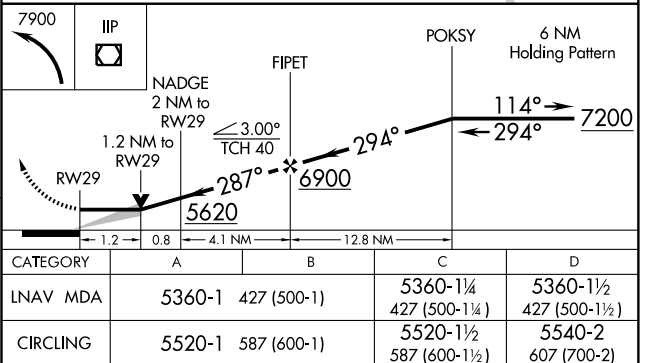
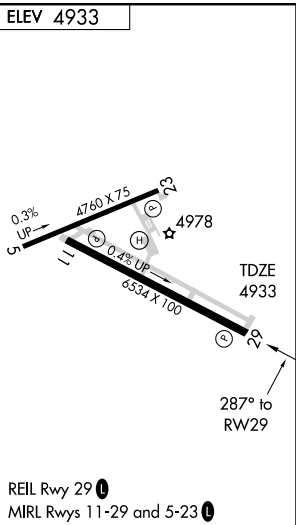
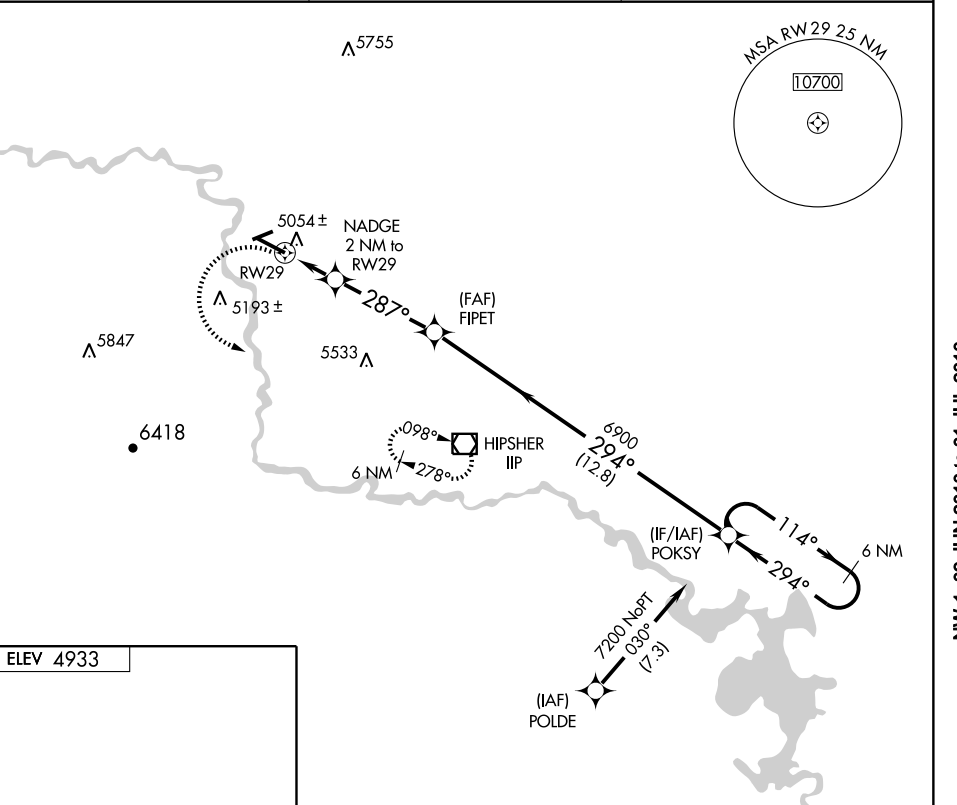
NW-1. 03 JUN 2010 to 01 JUL 2010

▼

DME/DME RNP- 0.3 NA.

MISSED APPROACH: Climbing left turn to 7900 direct IIP VOR/DME and hold, continue-in-hold to 7900.

ASOS 135.225	DENVER CENTER 135.6 363.025	UNICOM 122.8 (CTAF) 0
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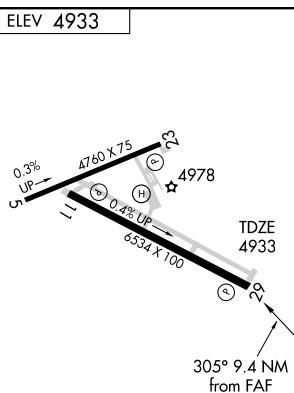
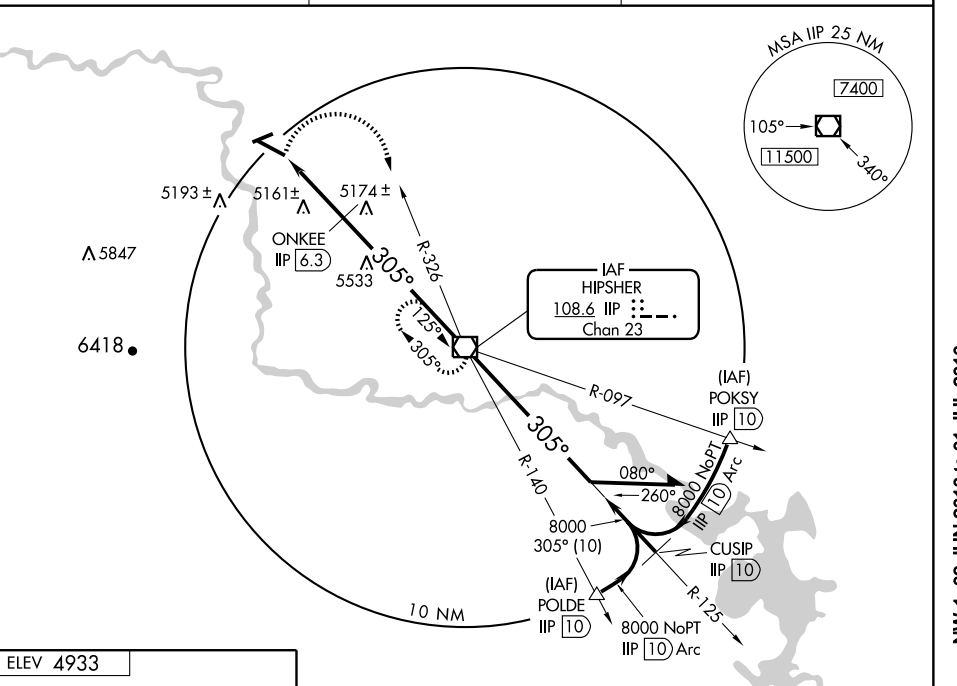
NW-1. 03 JUN 2010 to 01 JUL 2010

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▲

MISSED APPROACH: Climbing right turn to 8000 via heading 160° and IIP VOR/DME R-326 to IIP VOR/DME and hold, continue climb-in-hold to 8000.

ASOS 135.225	DENVER CENTER 135.6 363.025	UNICOM 122.8 (CTAF) 0
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REIL Rwy 29 0

MIRL Rwys 11-29 and 5-23 0

FAF to MAP 9.4 NM

Knots	60	90	120	150	180
Min:Sec	9:24	6:16	4:42	3:46	3:08

8000




160°

IIP

R-326

108.6

IIP



108.6

VOR/DME

125°

8000

Remain within 10 NM

ONKEE

IIP

6.3

IIP

9.4

IIP

8

5960

3.03°

TCH 40

8000

305°

8000

1.4

1.7

6.3 NM

CATEGORY	A	B	C	D
S-29	5960-1¼ 1027 (1100-1¼)	5960-1½ 1027 (1100-1½)	5960-3	1027 (1100-3)
CIRCLING	5960-1¼ 1027 (1100-1¼)	5960-1½ 1027 (1100-1½)	5960-3	1027 (1100-3)
ONKEE FIX MINIMUMS				
S-29	5420-1	487 (500-1)	5420-1¼ 487 (500-1¼)	5420-1½ 487 (500-1½)
CIRCLING	5520-1	587 (600-1)	5520-1½ 587 (600-1½)	5540-2 607 (700-2)

NW-1. 03 JUN 2010 to 01 JUL 2010

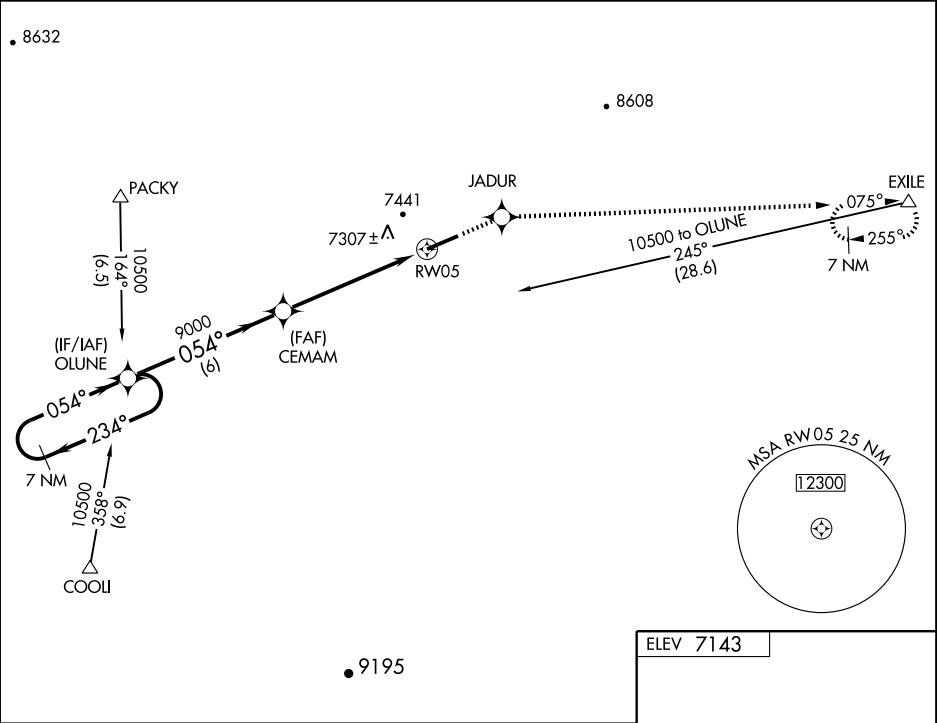
WAAS CH 78302 W05A	APP CRS 054°	Rwy Idg TDZE Apt Elev	7300 7141 7143
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RNAV (GPS) RWY 5

EVANSTON-UINTA COUNTY BURNS FIELD (E V W)

<p>▼ If local altimeter setting not received, procedure NA. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -29°C (-20°F) or above 34°C (94°F). DME/DME RNP- 0.3 NA.</p>	<p>MISSED APPROACH: Climb to 12000 direct JADUR and via 075° track to EXILE and hold, continue climb-in-hold to 12000.</p>
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ASOS 120.0	SALT LAKE CENTER 127.7 354.125	GCO 121.72	UNICOM 123.0 (CTAF) 0
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7 NM Holding Pattern		OLUNE		CEMAM		12000 ↑		JADUR ✦		075° track		EXILE △	
10500		← 234° 054° →		054°		9000		*0.8 NM to RW05		*LNAV only			
GS 3.00° TCH 55		6 NM		4.8 NM		0.8		RW05					
CATEGORY	A	B	C	D									
LPV DA	7391-3/4		250 (300-3/4)										
LNAV/ VNAV DA	7643-13/4		502 (500-13/4)										
LNAV MDA	7440-1		299 (300-1)										
CIRCLING	7580-13/4 437 (500-13/4)	7720-13/4 577 (600-13/4)	7760-13/4 617 (700-13/4)	7760-2 617 (700-2)									

TDZE 7141

7300 X 100

054° to RW05

7215±

AS

REIL Rwy 5 and 23

HIRL Rwy 5-23

WAAS CH 77905 W23A	APP CRS 234°	Rwy Idg 7300 TDZE 7143 Apt Elev 7143
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RNAV (GPS) RWY 23

EVANSTON-UINTA COUNTY BURNS FIELD (EVW)

T For inoperative MALSRS, increase LPV all Cats. visibility to 1, LNAV/VNAV Cat. D to 1 and LNAV Cat. D to 1½.
When local altimeter setting not received, procedure NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -29°C (-20°F) or above 34°C (93°F). DME/DME RNP: 0.3 NA.

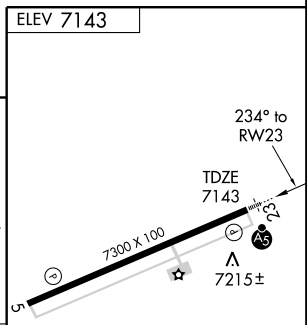
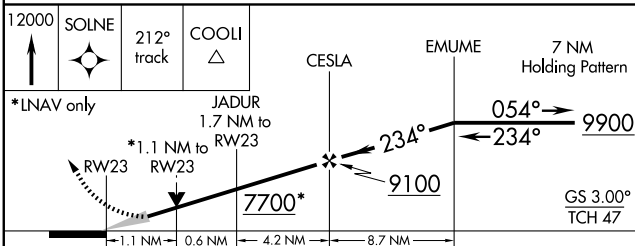
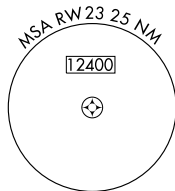
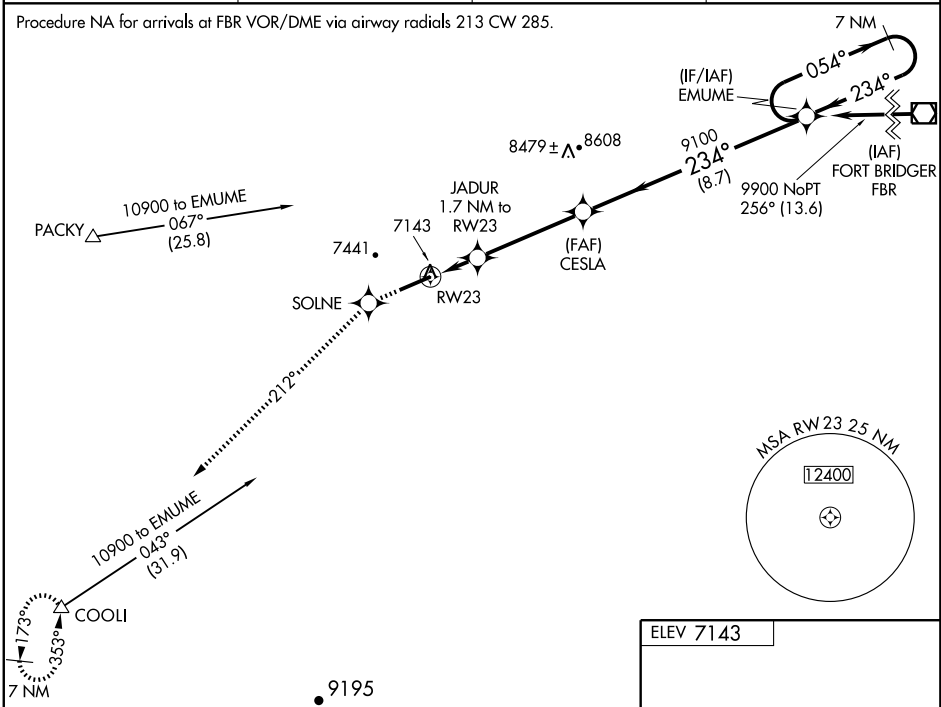
MALSR



MISSED APPROACH: Climb to 12000 direct SOLNE and via 212° track to COOL and hold, continue climb-in-hold to 12000.

ASOS 120.0	SALT LAKE CENTER 127.7 354.125	GCO 121.72	UNICOM 123.0 (CTAF) 0
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Procedure NA for arrivals at FBR VOR/DME via airway radials 213 CW 285.



CATEGORY		A	B	C	D
LPV	DA	7393- $\frac{1}{2}$ 250 (300- $\frac{1}{2}$)			
LNAV/ VNAV	DA	7443- $\frac{1}{2}$ 300 (300- $\frac{1}{2}$)			7443- $\frac{3}{4}$ 300 (300- $\frac{3}{4}$)
LNAV	MDA	7520- $\frac{1}{2}$ 377 (400- $\frac{1}{2}$)			7520-1 377 (400-1)
CIRCLING		7580-1 437 (500-1)	7720-1 577 (600-1)	7760-1 $\frac{3}{4}$ 617 (700-1 $\frac{3}{4}$)	7760-2 617 (700-2)

REIL Rwys 5 and 23 **L**HIRL Rwy 5-23 **L**

VOR/DME EVW 109.6 Chan 33	APP CRS 237°	Rwy Idg 7300 TDZE 7143 Apt Elev 7143
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VOR/DME RWY 23

EVANSTON-UINTA COUNTY BURNS FIELD (EVW)

T For inoperative MALSR, increase S-23 Cat. D visibility to 1¼ mile.
If local altimeter setting not received, procedure NA.

MALSR

MISSED APPROACH: Climb to 7600 then climbing left turn to 12000 via EVW VOR/DME R-213 to COOLI/16.6 DME and hold, continue climb-in-hold to 12000.

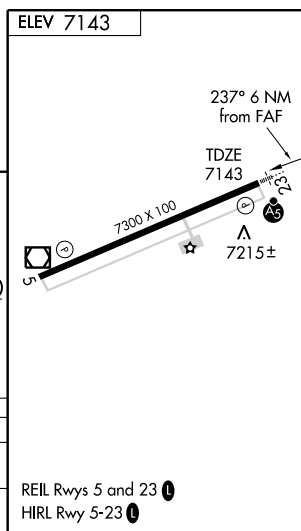
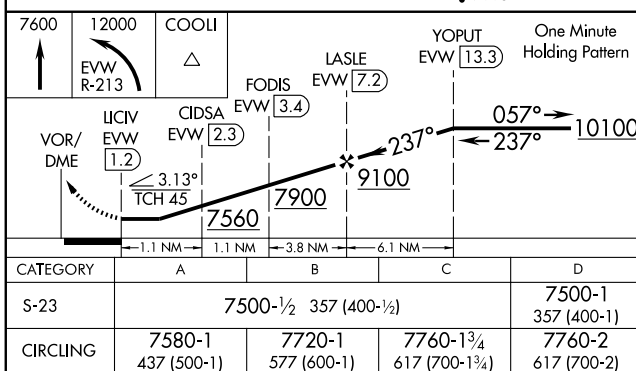
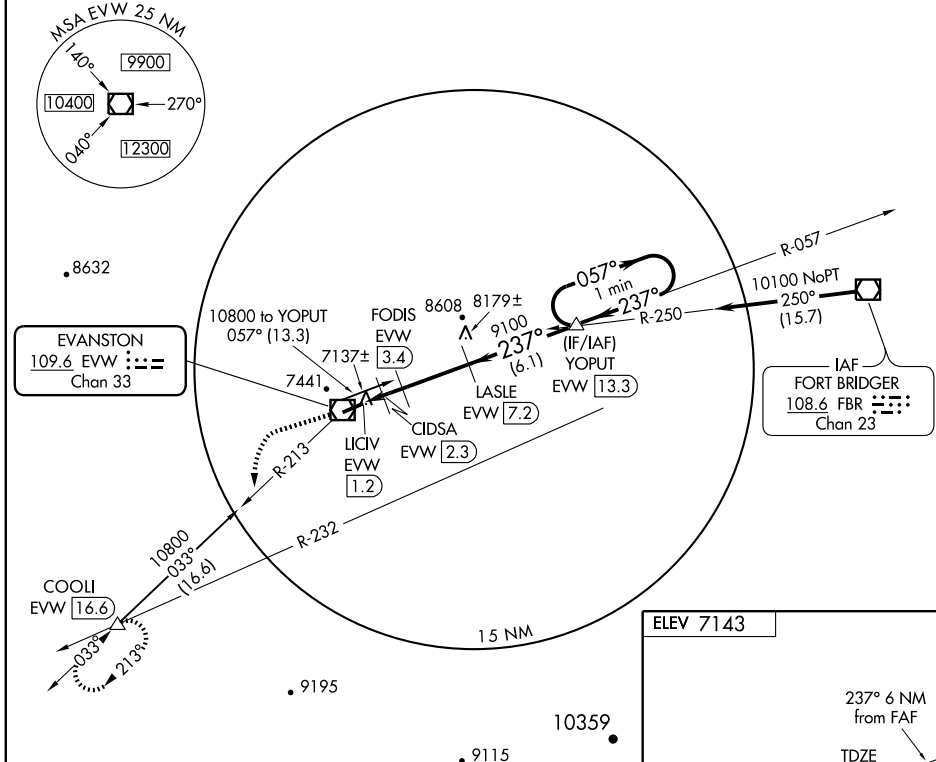
ASOS
120.0

SALT LAKE CENTER
127.7 354,125

GCO
121.72

UNICOM
123.0 (CTAF) **L**

Procedure NA for arrivals at FBR VOR/DME via airway radials 213 CW 285.



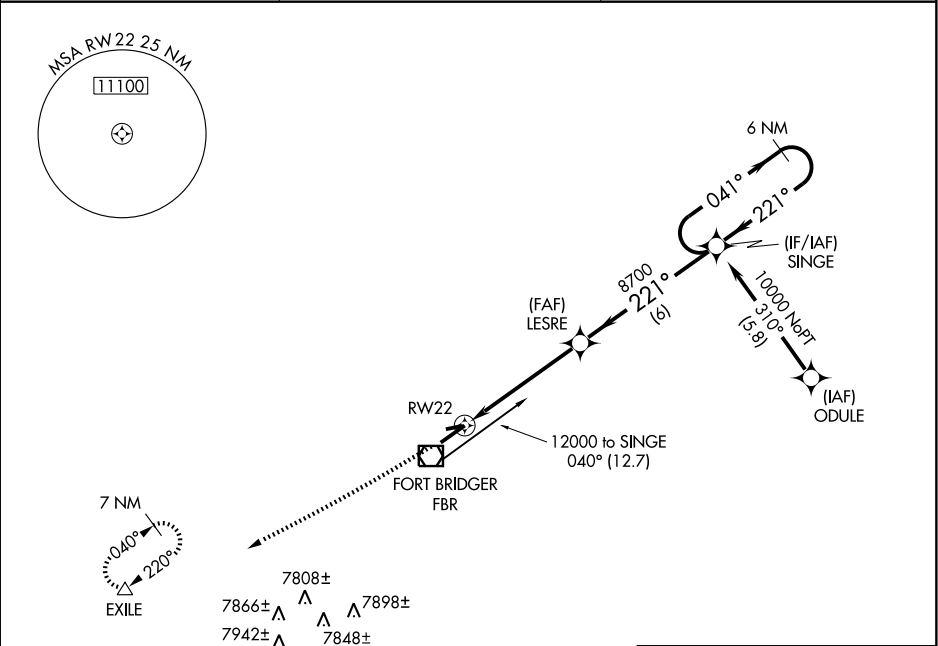
APP CRS	Rwy Idg	6402
221°	TDZE	7018
	Apt Elev	7034

RNAV (GPS) RWY 22

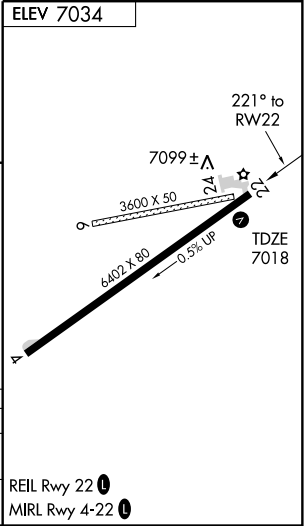
FORT BRIDGER (FBR)

NA	GPS or RNP 0.3 required. DME/DME RNP 0.3 NA	MISSED APPROACH: Climbing right turn to 12000 direct EXILE WP and hold.
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AWOS-2 118.8	CASPER RADIO 122.3	UNICOM 122.8 (CTAF)
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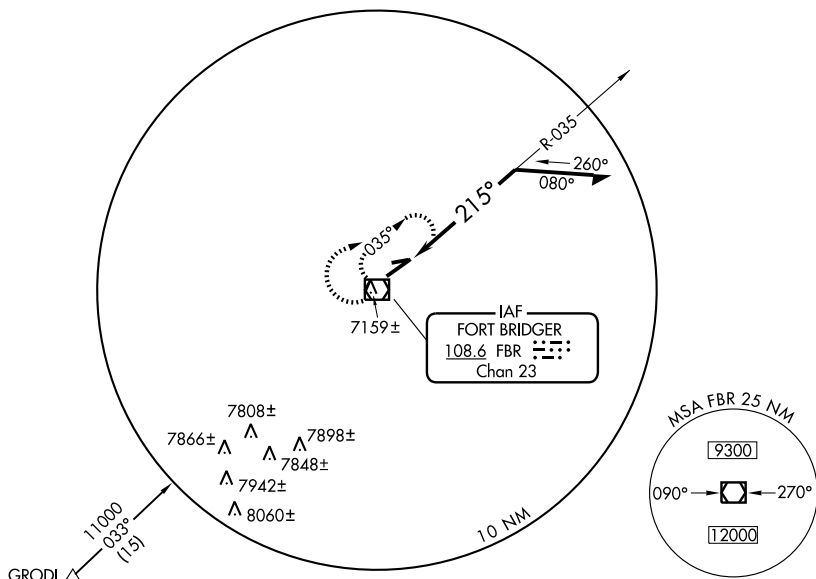
	EXILE 				
		SINGE 6 NM Holding Pattern			
		041° → 10000 ← 221°			
		VGSi and descent angles not coincident.			
CATEGORY	A	B	C	D	
LNAV MDA	7360-1 342 (400-1)			7360-1 ¼ 342 (400-1 ¼)	
CIRCLING	7480-1 446 (500-1)	7500-1 466 (500-1)	7500-1 ½ 466 (500-1 ½)	7600-2 566 (600-2)	



VOR RWY 22
FORT BRIDGER (FBR)

MISSED APPROACH: Climbing right turn to 9000 in FBR VOR/DME holding pattern.

UNICOM
122.8 (CTAF) **L**



NW-1. 03 JUN 2010 to 01 JUL 2010

VOR/DME*

035°

215°

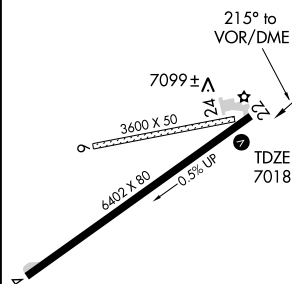
8500

Remain within 10 NM

* Maintain 8700 or above until established outbound for procedure turn.

CATEGORY	A	B	C	D
S-22	7440-1 422 (500-1)		7440-1 ¼ 422 (500-1¼)	
CIRCLING	7480-1 446 (500-1)	7500-1 466 (500-1)	7500-1½ 466 (500-1½)	7600-2 566 (600-2)

ELEV 7034



REIL Rwy 22 **L**
MIRL Rwy 4-22 **L**

LOC/DME I-LLT <u>110.1</u> Chan 38	APP CRS 338°	Rwy Idg 7500 TDZE 4365 Apt Elev 4365
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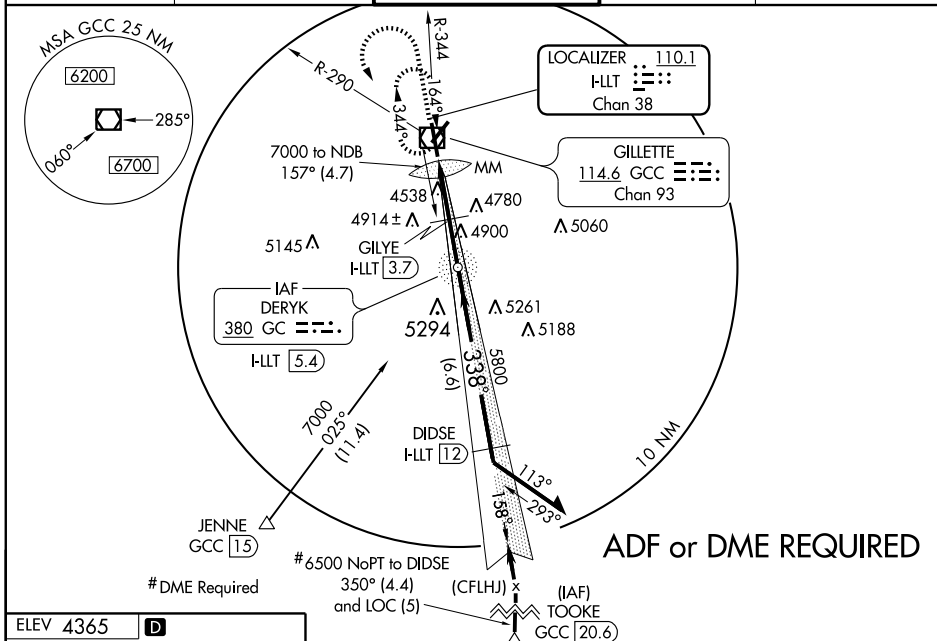
ILS or LOC RWY 34
GILLETTE-CAMPBELL COUNTY (GCC)

- T** For inoperative MALS/R, increase S-LOC Cat A, and GLYE FIX MINIMUMS S-LOC Cat A/B visibilities to 1.
A Inoperative table does not apply to S-ILS 34.
When VGSI inoperative, circling Rwy 3 NA at night.
If local altimeter setting not received, procedure NA.
ADF or DME required.

MALSR
A5

MISSED APPROACH: Climb to 5700 then climbing left turn to 7000 via heading 150° and GCC VOR/DME R-290 to GCC VOR/DME and hold, continue climb-in-hold to 7000.

ASOS 124.175	DENVER CENTER 135.6 363.025	GILLETTE TOWER* 118.5 (CTAF) 0	GND CON 121.7	UNICOM 122.95
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ELEV 4365 **D**

HIRL Rwy 16-34 **(1)**
 REIL Rwys 3, 16 and 21
 MIRL Rwy 3-21 **(1)**

TDZE 4365

34 **(1)**

338° 4 NM from FAF

FAF to MAP 4 NM

Knots	60	90	120	150	180
Min:Sec	4:00	2:40	2:00	1:36	1:20

Diagram illustrating the GILYE VORTAC navigation aid. The diagram shows a VORTAC station at 5700 MHz with a 150° beamwidth. It includes a table of frequencies for GILYE (5700, 7000, 5200*) and DERYK NDB (5706, 5200*). A table below the diagram shows the GILYE FIX MINIMUMS for S-LOC 34 and CIRCLING. The diagram also shows the GILYE VORTAC station at 5700 MHz with a 150° beamwidth.


CATEGORY	A	B	C	D
S-ILS 34	4565- $\frac{3}{4}$ 200 (200- $\frac{3}{4}$)			
S-LOC 34	5200- $\frac{3}{4}$ 835 (900- $\frac{3}{4}$)	5200-2 835 (900-2)	5200-2 $\frac{1}{4}$ 835 (900-2 $\frac{1}{4}$)	
CIRCLING	5200-1 835 (900-1)	5200-1 $\frac{1}{4}$ 835 (900-1 $\frac{1}{4}$)	5200-2 $\frac{1}{2}$ 835 (900-2 $\frac{1}{2}$)	5280-3 915 (1000-3)

GILYE FIX MINIMUMS

S-LOC 34	4940- $\frac{3}{4}$ 575 (600- $\frac{3}{4}$)	4940-1 575 (600-1)	4940-1 $\frac{1}{4}$ 575 (600-1 $\frac{1}{4}$)
CIRCLING	5040-1 675 (700-1)	5120-2 $\frac{1}{4}$ 755 (800-2 $\frac{1}{4}$)	5280-3 915 (1000-3)

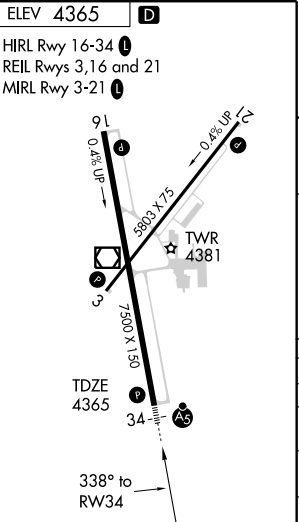
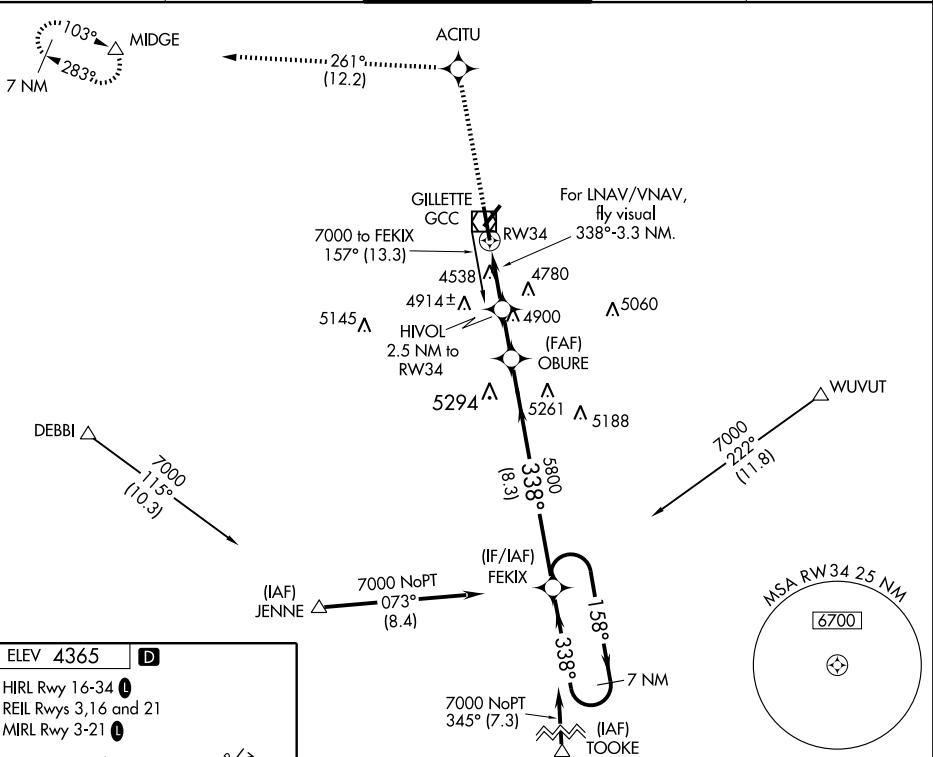
WAAS CH 86204 W34A	APP CRS 338°	Rwy Idg TDZE Apt Elev	7500 4365 4365
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⚠ Inoperative table does not apply to LPV and LNAV/VNAV. For inoperative MALSR, increase LNAV Cat A visibility to 1. When VGSI inoperative, Circling Rwy 3 NA at night. If local altimeter setting not received, procedure NA. DME/DME RNP- 0.3 NA. Baro-VNAV NA below -23°C (-9°F)

MALSR


MISSED APPROACH: Climb to 7000 direct ACITU and via 261° track to MIDGE and hold.

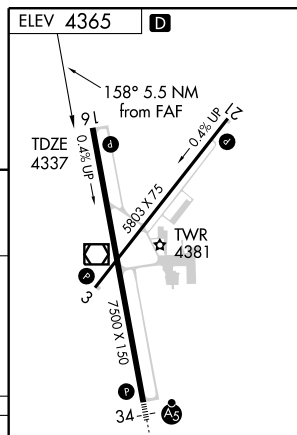
ASOS 124.175	DENVER CENTER 135.6 363.025	GILLETTE TOWER★ 118.5 (CTAF)	GND CON 121.7	UNICOM 122.95
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7000	ACITU	261° track	MIDGE	VGSI and RNAV glidepath not coincident	7 NM Holding Pattern
For LNAV/VNAV, fly visual 338°-3.3 NM.					
RW34		HIVOL 2.5 NM to RW34	OBURE	FEKIX	7000
5200		5800	158°	338°	7000
2.5 NM		1.8 NM	8.3 NM	GS 3.00° TCH 52	
CATEGORY	A	B	C	D	
LPV DA	4620-¾ 255 (300-¾)				
LNAV/VNAV DA	5480-2	1115 (1200-2)	5480-3	1115 (1200-3)	
LNAV MDA	5120-¾	755 (800-¾)	5120-1¾ 755 (800-1¾)	5120-2 755 (800-2)	
CIRCLING	5480-4 1115 (1200-4)				

NW-1, 03 JUN 2010 to 01 JUL 2010

MISSED APPROACH: Climbing left turn to 7000 via heading 308° and GCC R-338 to ODECA/14.5 DME and hold.

UNICOM
122.95

NW-1. 03 JUN 2010 to 01 JUL 2010


5 (800-2 ¼)	915 (1000-3)
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00 31

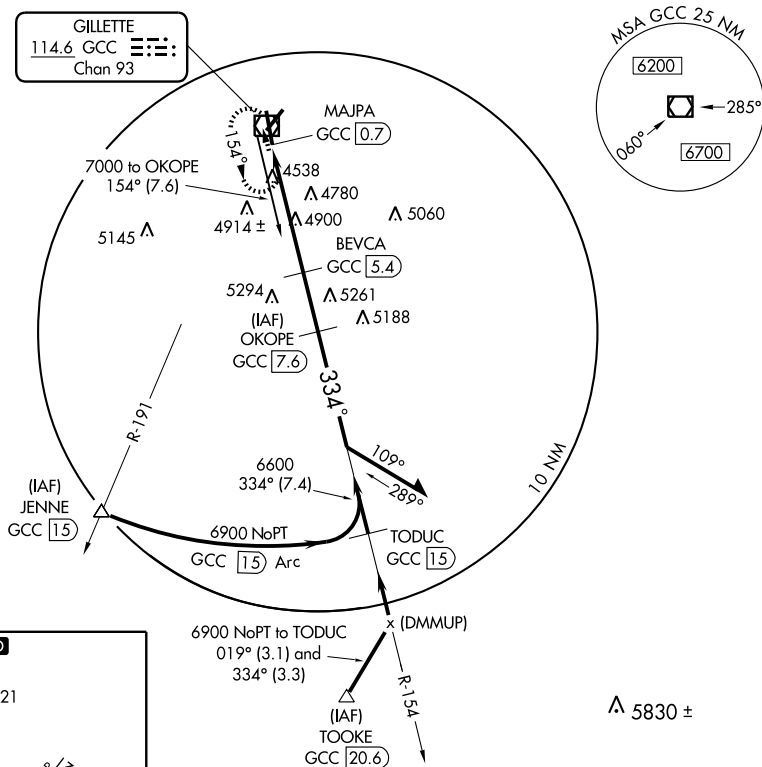
HIRL Rwy 16-34 **L**
REIL Rwy 3, 16 and 21
MIRL Rwy 3-21 **L**

VOR/DME GCC 114.6 Chan 93	APP CRS 334°	Rwy Idg 7500 TDZE 4365 Apt Elev 4365
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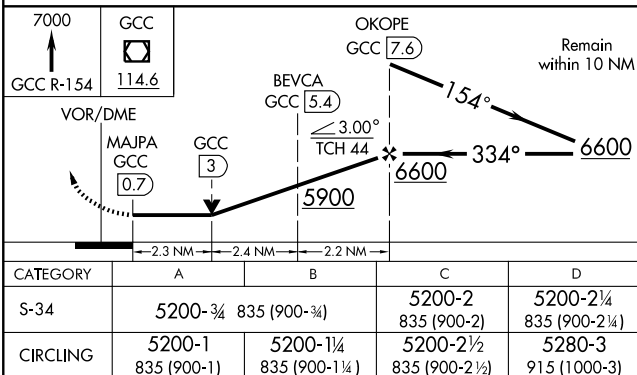
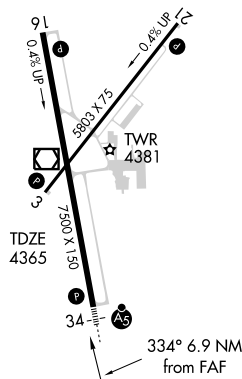
VOR/DME RWY 34
GILLETTE-CAMPBELL COUNTY (GCC)

- | | | |
|--|---|--|
| <p>▼ For inoperative MALS, increase S-34 Cat A visibility to 1.</p> <p>▲ When VGSI inoperative, Circling Rwy 3 NA at night.
If local altimeter setting not received, procedure NA.</p> | <p>MALS</p>  | <p>MISSED APPROACH: Climb to 7000 via GCC VOR/DME R-154 to GCC VOR/DME and hold, continue climb-in-hold to 7000.</p> |
|--|---|--|

ASOS 124.175	DENVER CENTER 135.6 363.025	GILLETTE TOWER★ 118.5 (CTAF) 0	GND CON 121.7	UNICOM 122.95
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ELEV 4365	D
HIRL Rwy 16-34 L	
REIL Rwy 3, 16 and 21	
MIRL Rwy 3-21 L	



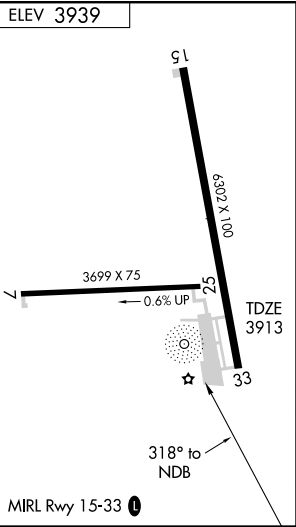
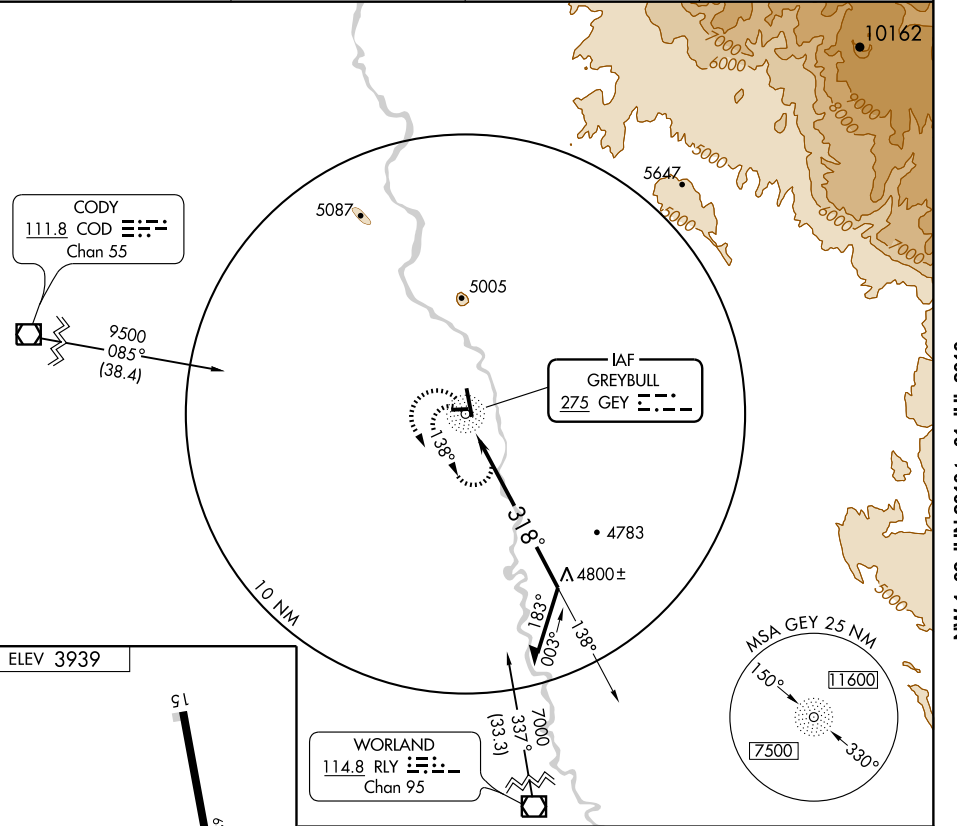
▼

▲ NA

If local altimeter setting not received, use Worland altimeter setting and increase all MDAs 120 feet. Visibility reduction by helicopter NA.

MISSED APPROACH: Climbing left turn to 6500 in GEY NDB holding pattern.

ASOS	SALT LAKE CENTER	CTAF	122.8
135.325	133.25 285.6	122.9	



6500	GEY	NDB	138°	6300	318°	Remain within 10 NM
275						
CATEGORY	A	B	C	D		
S-33	5200-1¼ 1287 (1300-1¼)	5200-1½ 1287 (1300-1½)	5200-3	1287 (1300-3)		
CIRCLING	5200-1¼ 1261 (1300-1¼)	5200-1½ 1261 (1300-1½)	5200-3	1261 (1300-3)		

RNAV (GPS)-A

GREYBULL/ SOUTH BIG HORN COUNTY (GEY)

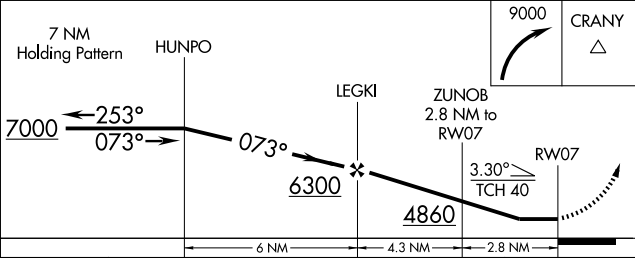
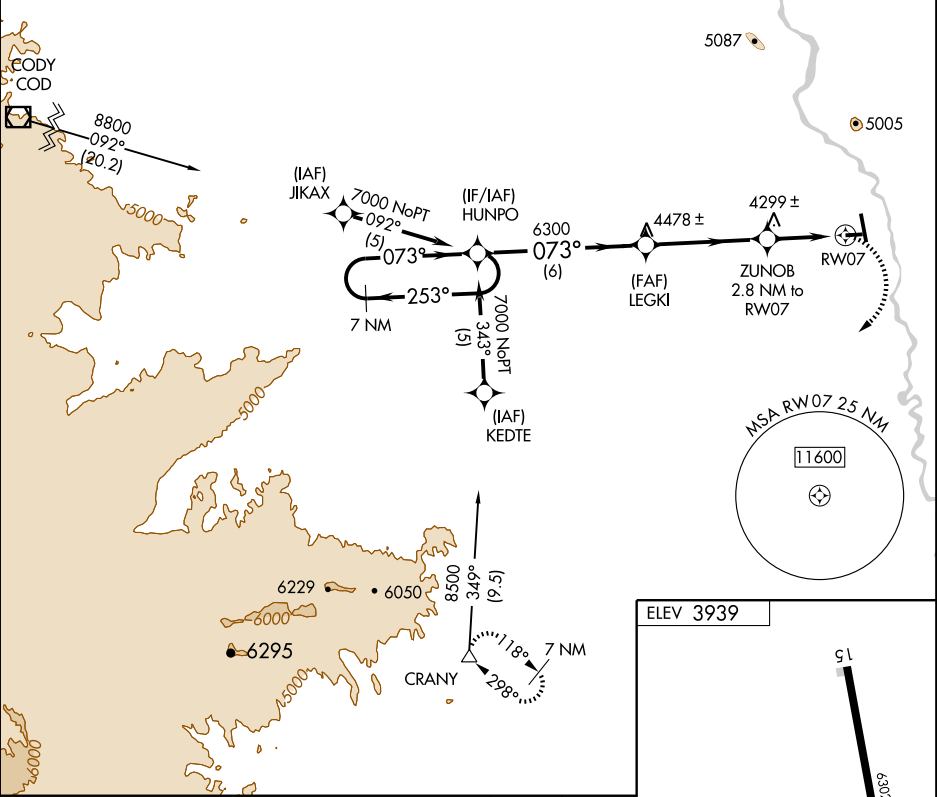
APP CRS	Rwy Idg	N/A
073°	TDZE	N/A
	Apt Elev	3939

DME/DME RNP -0.3 NA.
If local altimeter setting not received, use Worland Muni
altimeter setting and increase all MDAs 120 feet.
Circling to Rwy 7/25 NA at night.

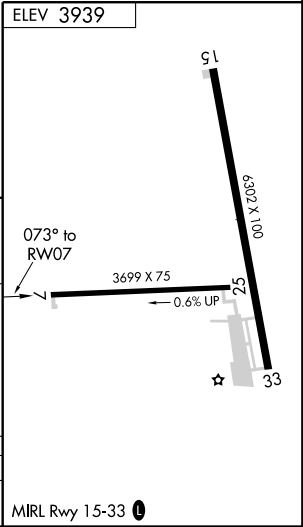
MISSED APPROACH: Climbing right turn to 9000 direct
CRANY and hold, continue climb-in-hold to 9000.

ASOS	SALT LAKE CENTER	CTAF	122.8
135.325	133.25 285.6	122.9	

Procedure NA for arrivals at COD VOR/DME via V85 northwest bound.



CATEGORY	A	B	C	D
CIRCLING	4560-1 621 (700-1)	4580-1 641 (700-1)	NA	



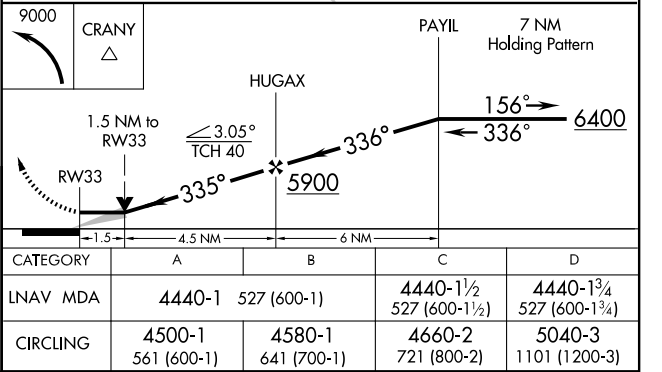
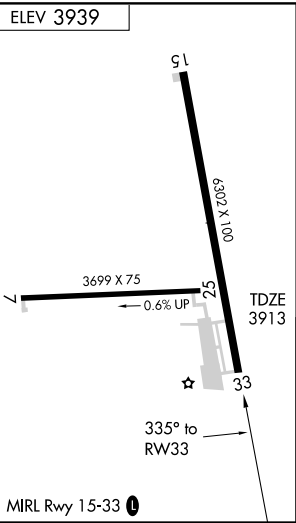
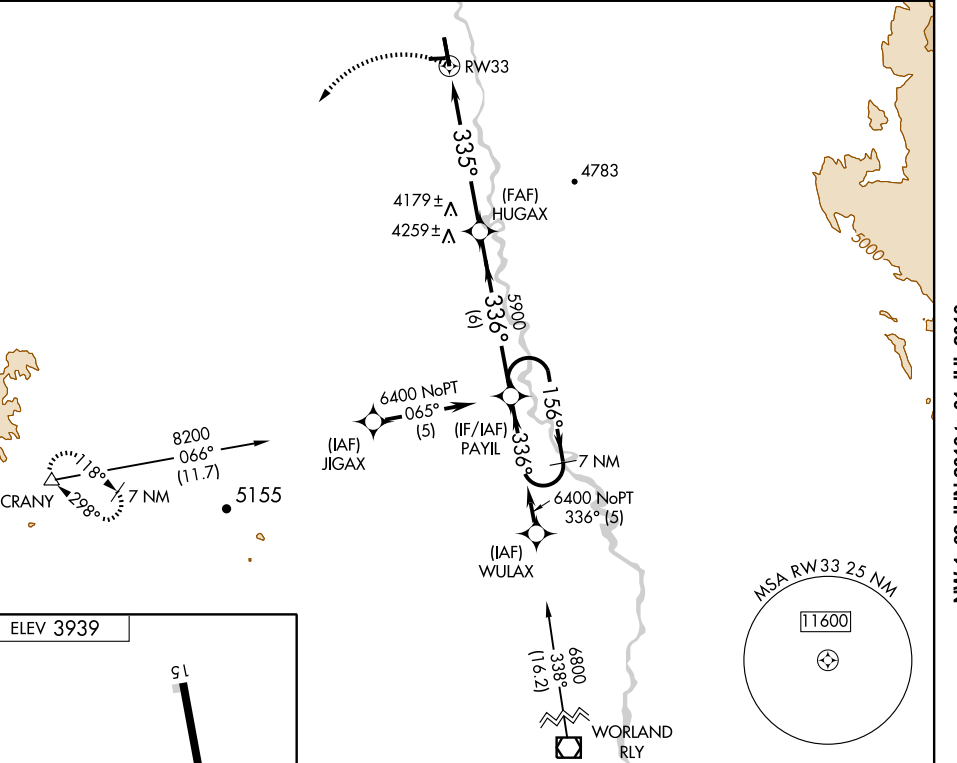
▼

▲

DME/DME RNP-0.3 NA. If local altimeter setting not received, use Worland Muni altimeter setting and increase all MDAs 120 feet. VDP NA when using Worland altimeter setting. Circling to Rwy 7/25 NA at night.

MISSED APPROACH: Climbing left turn to 9000 direct CRANY and hold, continue climb-in-hold to 9000.

ASOS 135.325	SALT LAKE CENTER 133.25 285.6	CTAF 122.9	122.8 0
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▼

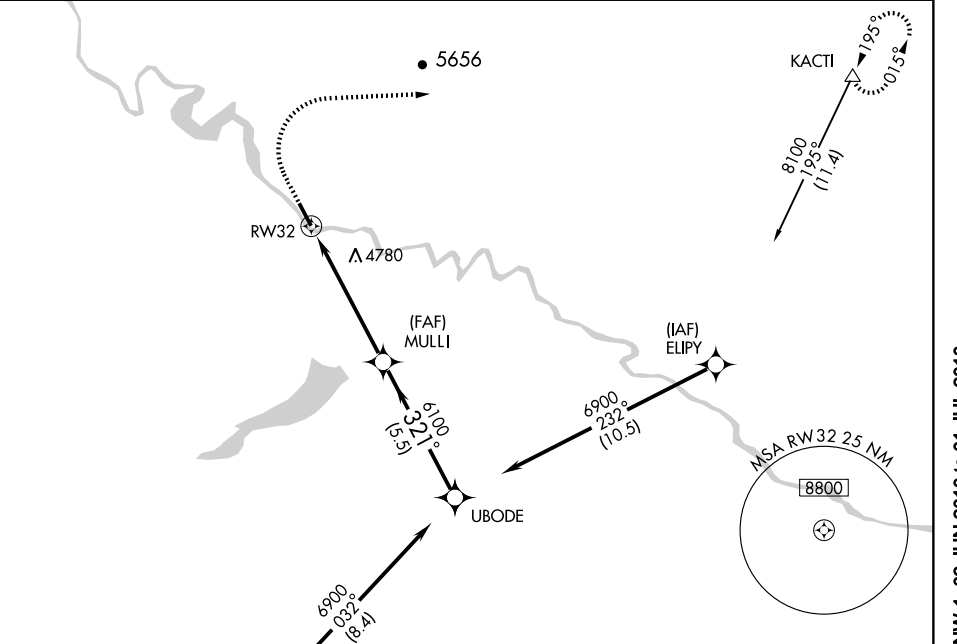
▲ NA

Obtain local altimeter setting on UNICOM, when not received use Scottsbluff, NE altimeter setting.
Descent angle NA when using Scottsbluff altimeter setting.

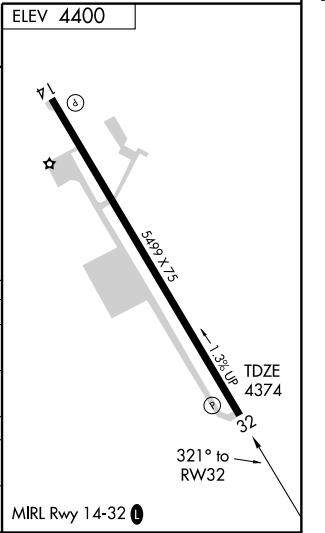
MISSED APPROACH: Climb to 5600 then climbing right turn to 8100 direct KACTI WP and hold.

DENVER CENTER
135.6 363.025

UNICOM
122.7 (CTAF) 0



5600	8100	KACTI	VGSI and descent angles not coincident.	UBODE
↑	↷	△		
			MULLI	6900
			321°	
			6100	
			≤ 2.94°	Procedure Turn NA
			TCH 54	
			5.5 NM	5.5 NM
CATEGORY	A	B	C	D
S-32	5040-1	666 (700-1)	5040-1¾ 666 (700-1¾)	5040-2 666 (700-2)
CIRCLING	5340-1¾ 940 (1000-1¾)	5340-1½ 940 (1000-1½)	5420-3	1020 (1100-3)
SCOTTSBLUFF, NE ALTIMETER SETTING MINIMUMS				
S-32	5240-1	866 (900-1)	5240-2¾	866 (900-2¾)
CIRCLING	5540-1¾ 1140 (1200-1¾)	5540-1½ 1140 (1200-1½)	5620-3	1220 (1300-3)

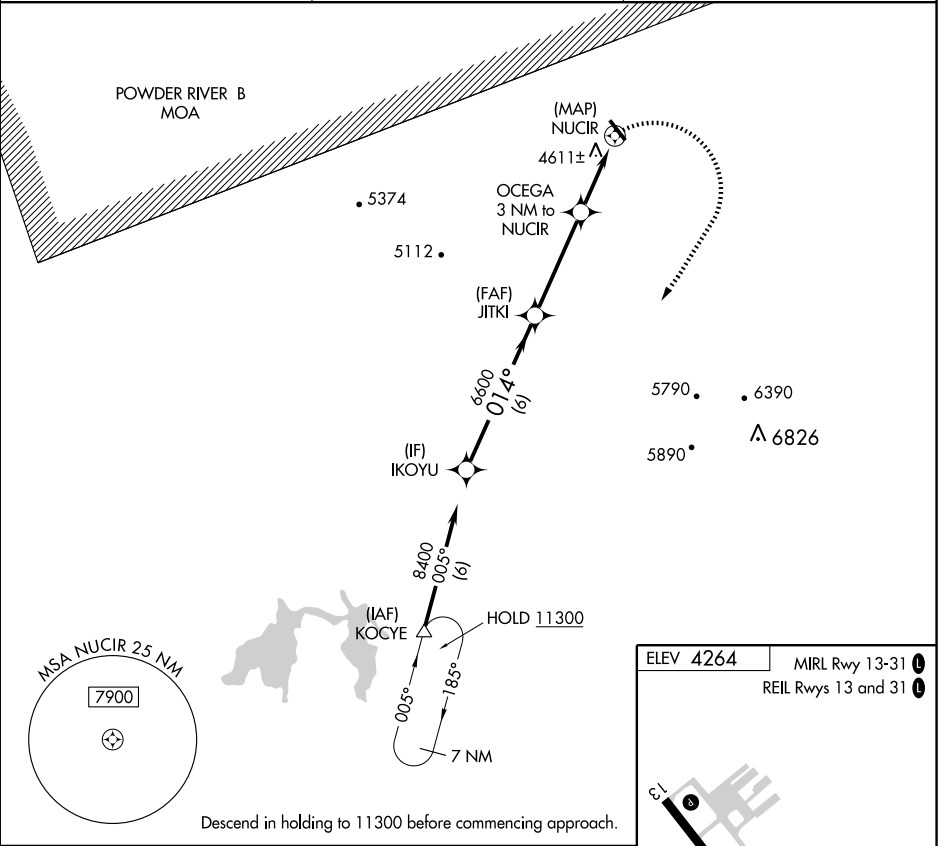


APP CRS	Rwy Idg	N/A
014°	TDZE	N/A
	Apt Elev	4264

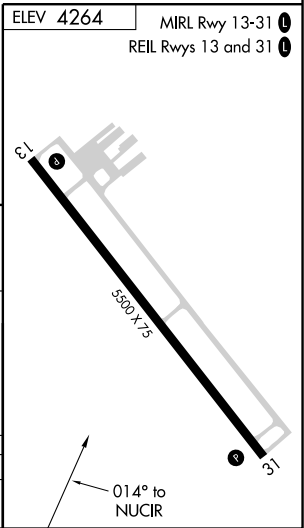
Procedure NA at night. DME/DME RNP-0.3 NA.
If local altimeter setting not received, use Gillette altimeter setting and increase all MDAs 120 feet.

MISSED APPROACH: Climbing right turn to 15000 direct KOCYE and hold, continue climb-in-hold to 15000.

AWOS-3 128.755	DENVER CENTER 127.95 338.2	UNICOM 122.8 (CTAF) 0
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CATEGORY	IKOYU		JITKI		OCEGA 3 NM to NUCIR		NUCIR	
	8400		6600		5620		15000	
CIRCLING	A		B		C		D	
	4920-1 656 (700-1)		5060-1¼ 796 (800-1¼)		NA		NA	

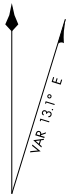


AIRPORT DIAGRAM

AL-504 (FAA)

JACKSON HOLE (JAC)
JACKSON, WYOMING

ATIS 120.625
JACKSON TOWER ★
118.075
GND CON
124.55



JANUARY 2005
ANNUAL RATE OF CHANGE
0.1° W

RWY 1-19
S75, D200, ST175, DT380

FIELD
ELEV
6451

186.4°

43°36.5'N

★
CONTROL
TOWER
6506

6300 X 150

TERMINAL

HANGARS

43°36'N

ELEV
6413

CAUTION: BE ALERT TO RUNWAY CROSSING CLEARANCES.
READBACK OF ALL RUNWAY HOLDING INSTRUCTIONS
IS REQUIRED.

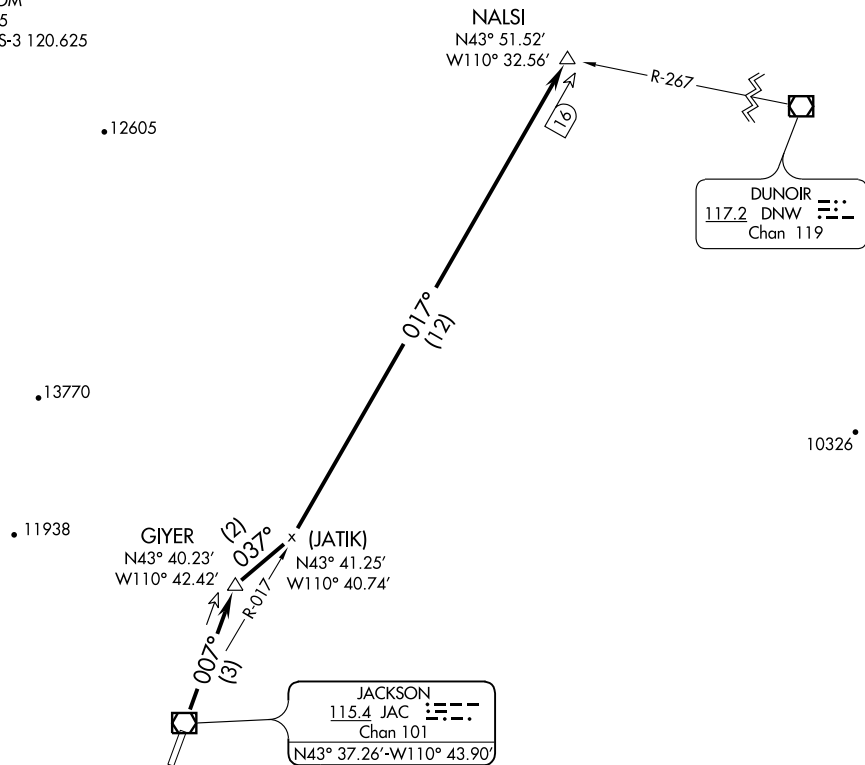
110°44.5'W

110°44'W

NW-1, 03 JUN 2010 to 01 JUL 2010

GEYSER FOUR DEPARTURE (OBSTACLE)

SALT LAKE CENTER
133.25 285.6
CASPER RADIO
122.05
CTAF
118.075
UNICOM
122.95
AWOS-3 120.625

TAKE-OFF MINIMUMS

Rwy 1: Standard with minimum climb of 450' per NM to 14000, or 4400-3 for climb in visual conditions.

Rwy 19: Not authorized - ATC.

DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 1: Climb to 14000 via JAC R-007 to GIYER/JAC 3 DME, then right turn heading 037° to intercept JAC R-017 to NALSI INT/JAC 16 DME; or for climb in visual conditions: Cross JAC VOR/DME northbound at or above 10800 then climb to 14000 via JAC R-017 to NALSI INT/JAC 16 DME.

LOC/DME I-JAC 109.1 Chan 28	APP CRS 187°	Rwy Idg 6300 TDZE 6451 Apt Elev 6451
---	------------------------	---

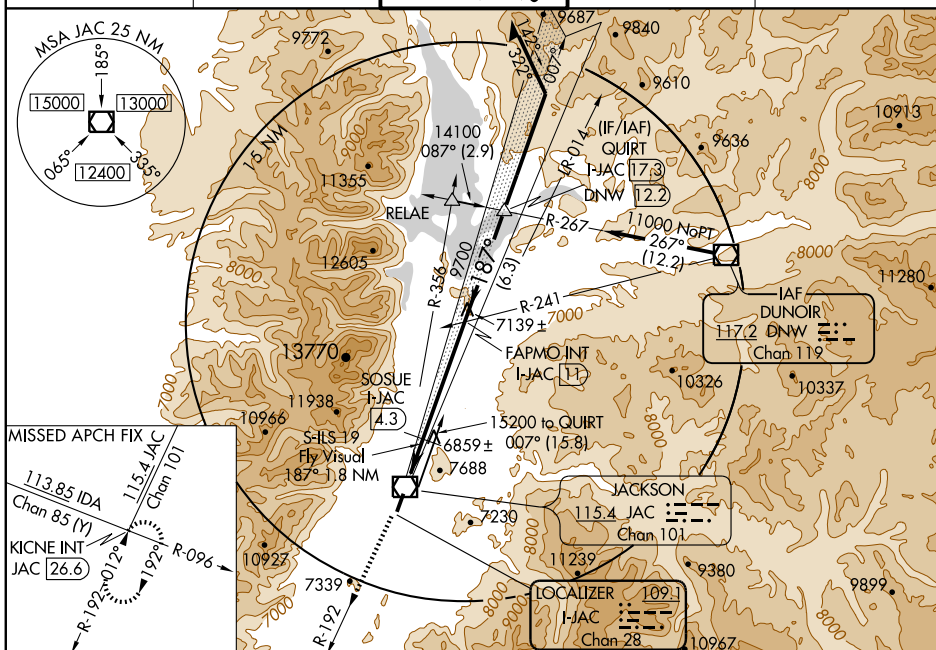
ILS or LOC Y RWY 19
JACKSON HOLE (JAC)

 NA	Inoperative table does not apply. Circling NA east of Rwy 1-19.
--	--

MALS

MISSED APPROACH: Climb to 14000 via JAC VOR/DME R-192 to KICNE INT/JAC VOR/DME 26.6 DME and hold, continue climb-in-hold to 14000.

ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER★ 118.075 (CTAF) 0	GND CON 124.55	UNICOM 122.95
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ELEV 6451

187° 9.8 NM from FAF

6477 A

TDZE 6451

TWR 6506 ☆

6300 X 130

0.6% UP

6466 ± A

HIRL Rwy 1-19

FAF to MAP 9.8 NM

Knots	60	90	120	150	180
Min:Sec	9:48	6:32	4:54	3:55	3:16

LOC/DME I-JAC <u>109.1</u> Chan 28	APP CRS 187°	Rwy Idg 6300 TDZE 6451 Apt Elev 6451
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ILS or LOC Z RWY 19
JACKSON HOLE (JAC)

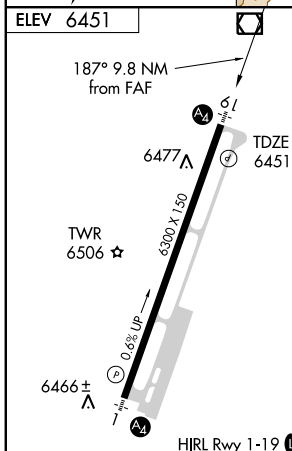
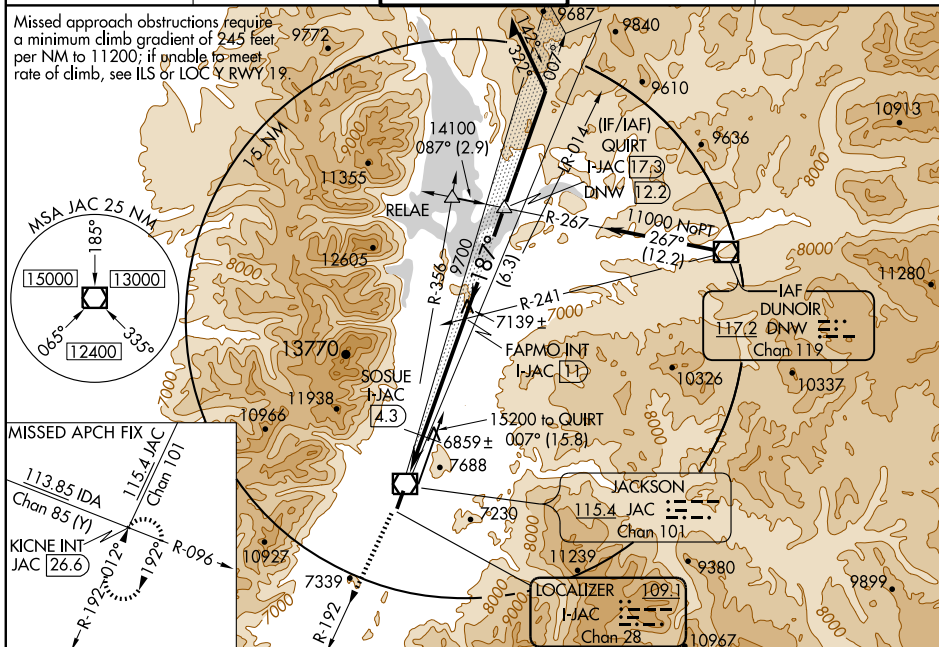
T
A NA Inoperative table does not apply to S-LOC 19.
Circling NA east of Rwy 1-19.

MALS

MISSED APPROACH: Climb to 14000 via JAC VOR/DME R-192 to KICNE INT/JAC VOR/DME 26.6 DME and hold, continue climb-in-hold to 14000.

ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER* 118.075 (CTAF) 0	GND CON 124.55	UNICOM 122.95
------------------------	---	---	--------------------------	-------------------------

Missed approach obstructions require a minimum climb gradient of 245 feet per NM to 11 200; if unable to meet rate of climb, see ILS or LOC Y RWY 19



HIRL Rwy 1-19						S-LOC 19					6840-1 1/4 389 (400-1 1/4)											
FAF to MAP 9.8 NM						CIRCLING					6840-1 389 (400-1)			6920-1 469 (500-1)			6920-1 1/2 469 (500-1 1/2)			7080-2 629 (700-2)		
Knots	60	90	120	150	180																	
Min:Sec	9:48	6:32	4:54	3:55	3:16																	

WAAS CH 58299 W01A	APP CRS 006°	Rwy Idg TDZE Apt Elev	6300 6431 6451
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RNAV (GPS) X RWY 1

JACKSON HOLE (JAC)

⚠ Circling NA east of Rwy 1-19. Inoperative table does not apply.

⚠ If local altimeter setting not received, procedure NA.

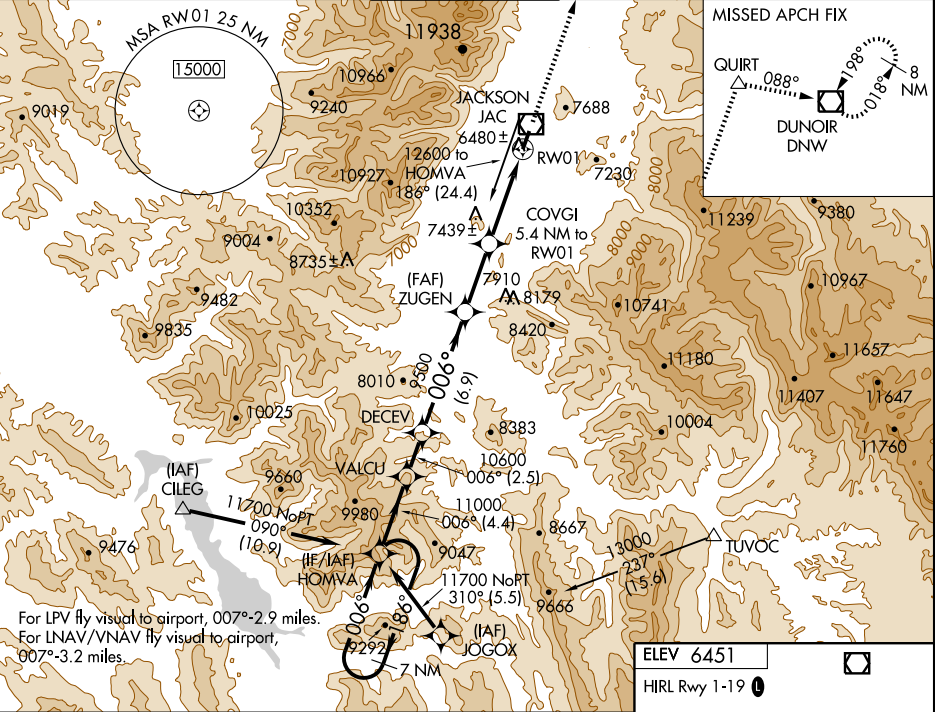
Baro-VNAV NA below -27°C (-16°F). DME/DME RNP: 0.3 NA.

MALS

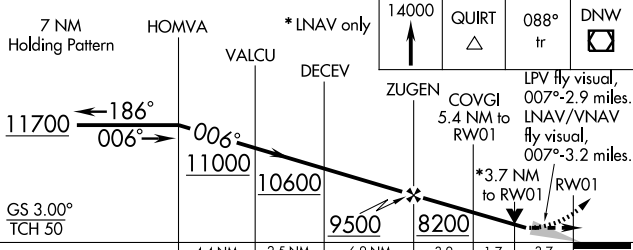
⚠

MISSED APPROACH: Climb to 14000 direct QUIRT and via 088° track to DNW VOR/DME and hold, continue climb-in-hold to 14000.

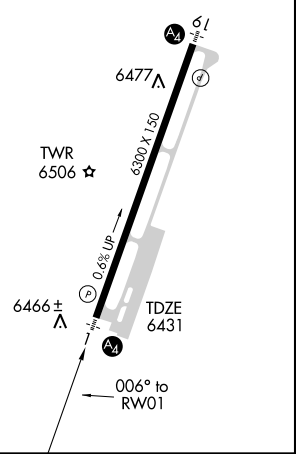
ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER* 118.075 (CTAF) ⚠	GND CON 124.55	UNICOM 122.95
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For LPV fly visual to airport, 007°-2.9 miles.
For LNAV/VNAV fly visual to airport, 007°-3.2 miles.



CATEGORY	A	B	C	D
LPV DA	7393-2 962 (1000-2)			
LNAV/VNAV DA	7470-2	1039 (1100-2)	7470-3	1039 (1100-3)
LNAV MDA	7640-1¼ 1209 (1200-1¼)	7640-1½ 1209 (1200-1½)	7640-3	1209 (1200-3)
CIRCLING	7640-1¼ 1189 (1200-1¼)	7640-1½ 1189 (1200-1½)	7640-3	1189 (1200-3)



▼

Circling NA east of Rwy 1-19. DME/DME RNP- 0.3 NA.

▲

Inoperative table does not apply.

MAIS

A4

MISSED APPROACH: Climb to 14000 direct CETLI and left turn via 097° track to BIYCA and left turn via 010° track to DNV VOR/DME and hold.

ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER* 118.075 (CTAF) A	GND CON 124.55	UNICOM 122.95
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ELEV 6451

187° to RW19

TDZE 6451

6477 A

TWR 6506 ☆

6466 ± A

0.6% UP

4300 X 150

A4

CETLI 14000

097° tr

BIYCA

010° tr

DNW

EDECO 6 NM Holding Pattern

GIYER 3.5 NM to RW19

FEVOP

007°

187°

11800

7780

9800

7780

3.5 NM

5.5 NM

10 NM

VGSI and descent angles not coincident.

CATEGORY	A	B	C	D
RNAV MDA	7640-1¼ 1189 (1200-1¼)	7640-1½ 1189 (1200-1½)	7640-3	1189 (1200-3)
CIRCLING	7640-1¼ 1189 (1200-1¼)	7640-1½ 1189 (1200-1½)	7640-3	1189 (1200-3)

NW-1, 03 JUN 2010 to 01 JUL 2010

APP CRS	Rwy Idg	6300
006°	TDZE	6431
	Apt Elev	6451

RNAV (RNP) Y RWY 1

JACKSON HOLE (JAC)

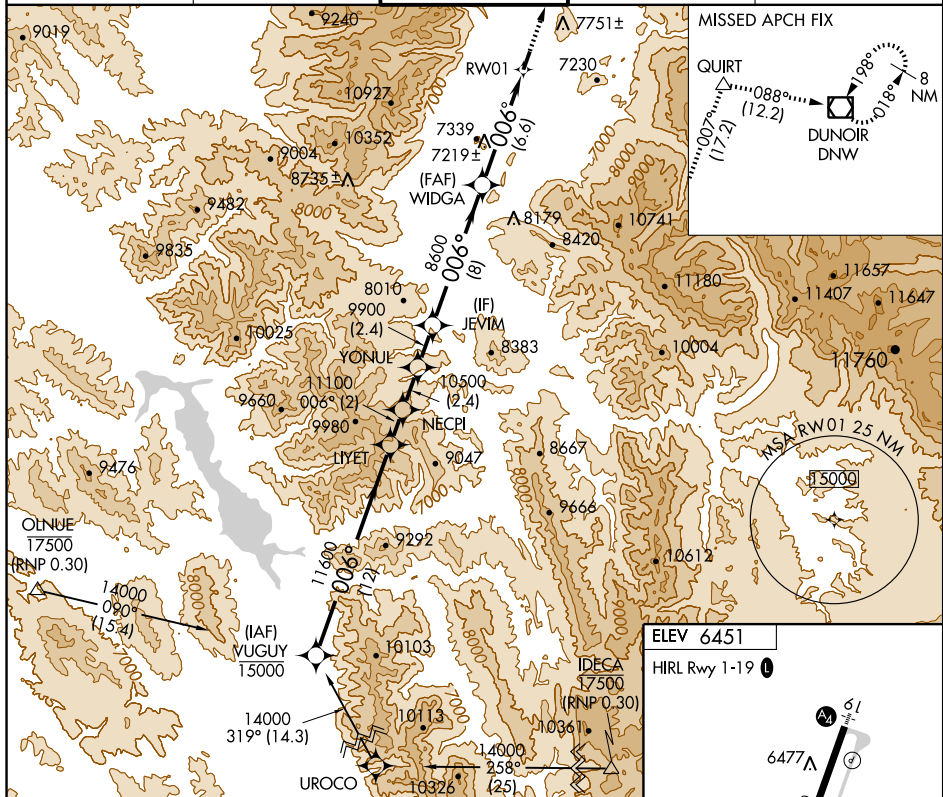
GPS required.
▲ For uncompensated Baro-VNAV systems, procedure NA below -28°C (-18°F) or above 36°C (97°F).
 Inoperative table does not apply. Visibility reduction by helicopters NA.
 When VGSI inoperative, procedure NA at night.

MALS



MISSED APPROACH: Climb to 14000 via track 007° to QUIRT and via track 088° to DNW VOR/DME and hold, continue climb-in-hold to 14000.

ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER* 118.075 (CTAF)	GND CON 124.55	UNICOM 122.95
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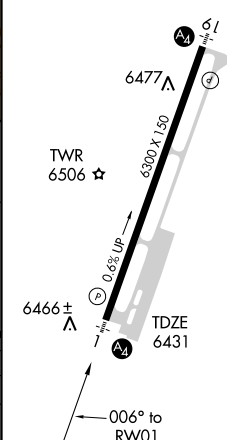


VUGUY	LIYET	NECPI	YONUL	JEVIM	WIDGA	RW01
14000	11600	11100	10500	9900	8600	
GP 3.00°	Procedure					
TCH 50	Turn					
	NA					
	12 NM	2 NM	2.4	2.4	8 NM	6.6 NM
CATEGORY	A	B	C	D		
RNP 0.30	DA	7364-4	933 (1000-4)	NA		

**SPECIAL AIRCRAFT & AIRCREW
AUTHORIZATION REQUIRED**

ELEV 6451

HIRL Rwy 1-19



APP CRS	Rwy Idg	6300
006°	TDZE	6431
	Apt Elev	6451

RNAV (RNP) Z RWY 1

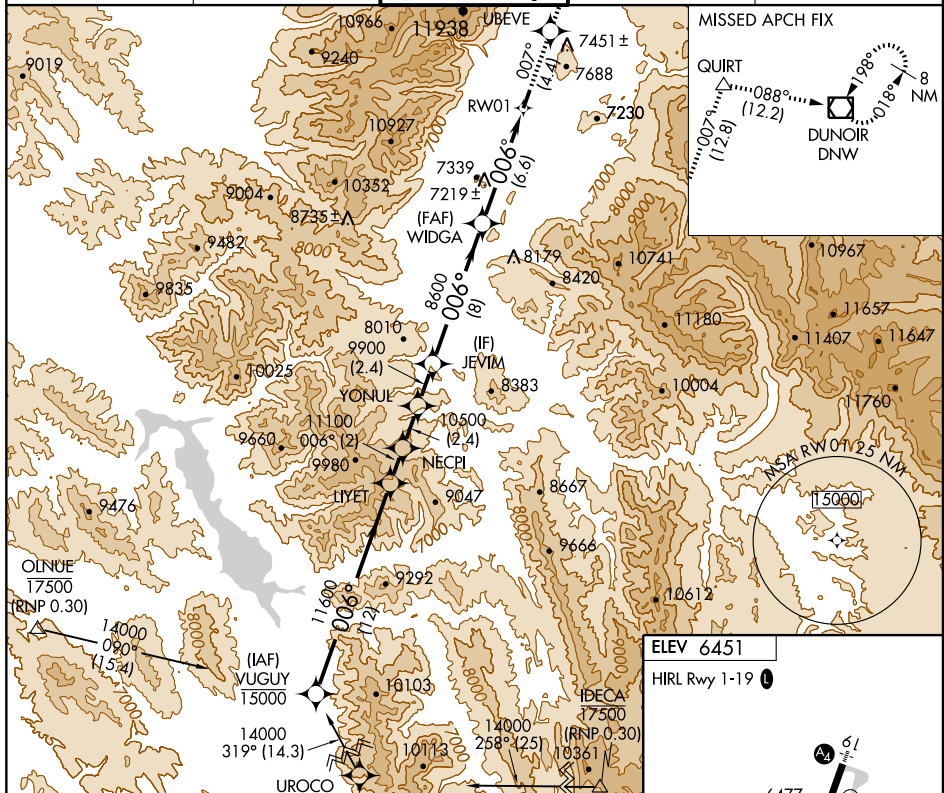
JACKSON HOLE (JAC)

GPS required. For uncompensated Baro-VNAV systems, procedure NA below -28°C (-18°F) or above 36°C (97°F). For inoperative MALS, increase RNP 0.30 visibility all cats to 1½. Visibility reduction by helicopters NA. When VGSI inoperative, procedure NA at night. Missed approach requires RNP less than 1.0 and minimum climb of 280 feet per NM to 8100; if unable, see RNAV (RNP) Y RWY 1.



MISSED APPROACH: Climb to 14000 via track 007° to UBEVE and via track 007° to QUIRT and via track 088° to DNW VOR/DME and hold, continue climb-in-hold to 14000.

ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER★ 118.075 (CTAF)	GND CON 124.55	UNICOM 122.95
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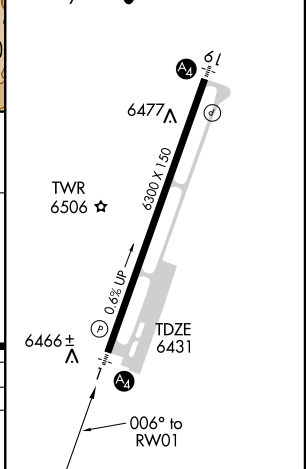


VUGUY	LYET	NECPI	UBEVE	tr 007°	QUIRT	tr 088°	DNW
14000	11600	11100	10500	9900	8600	8100	7500
GP 3.00°	Turn NA	Procedure	Turn NA	Turn NA	Turn NA	Turn NA	Turn NA
12 NM	2 NM	2.4	2.4	8 NM	6.6 NM		
CATEGORY	A	B	C	D			
RNP 0.30	DA	6811-1	380 (400-1)	NA			

SPECIAL AIRCRAFT & AIRCREW AUTHORIZATION REQUIRED

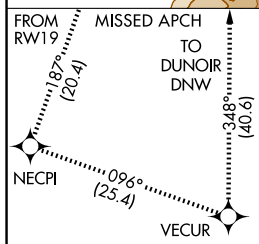
ELEV 6451

HIRL Rwy 1-19



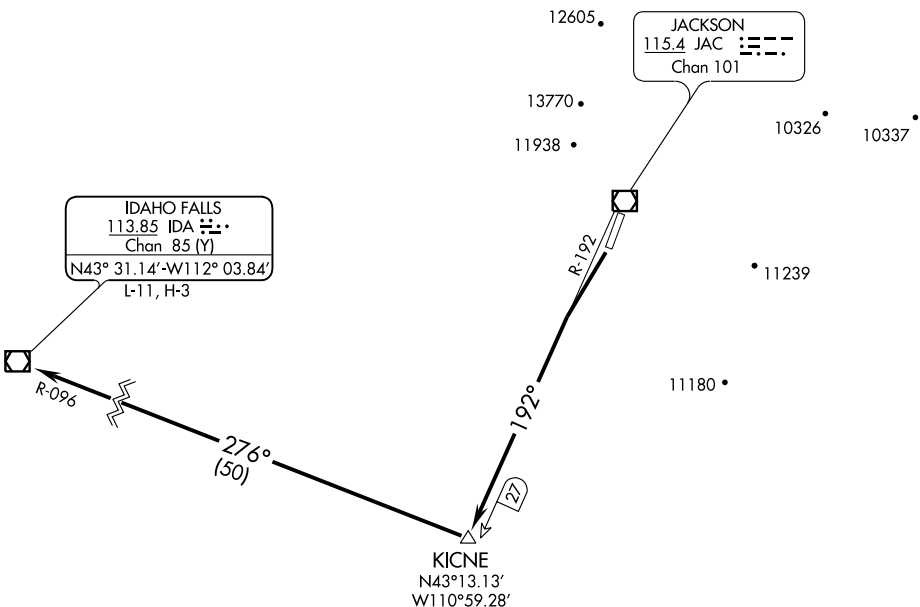
JACKSON HOLE (JAC)

MISSED APPROACH: Climb to 14000 via track 187° to NECPI and via track 096° to VECUR and via left turn on track 348° to DNW VOR/DME and hold.

UNICOM
122.95HIRL Rwy 1-19 **L**

TETON THREE DEPARTURE (OBSTACLE)

SALT LAKE CENTER
133.25 285.6
CASPER RADIO
122.05
CTAF
118.075
UNICOM
122.95
AWOS-3 120.625

TAKE-OFF MINIMUMS:

Rwy 19: Standard with a minimum climb of 335' per NM to
14000 or 4400-3 for climb in visual conditions.

Rwy 1: Not authorized - ATC.

NOTE: Rwy 19, Bush 485 feet from DER, 513 feet right of centerline, 6428' MSL.



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 19: Climb to 14000 via JAC R-192 to KICNE INT/JAC 27 DME, then right turn via IDA R-096 to IDA VOR/DME; or for climb in visual conditions: cross JAC VOR/DME southbound at or above 10800, then climb to 14000 via JAC R-192 to KICNE INT/JAC 27 DME, then right turn via IDA R-096 to IDA VOR/DME.

⚠

Circling NA east of Rwy 1-19.

⚠

Inoperative table does not apply.

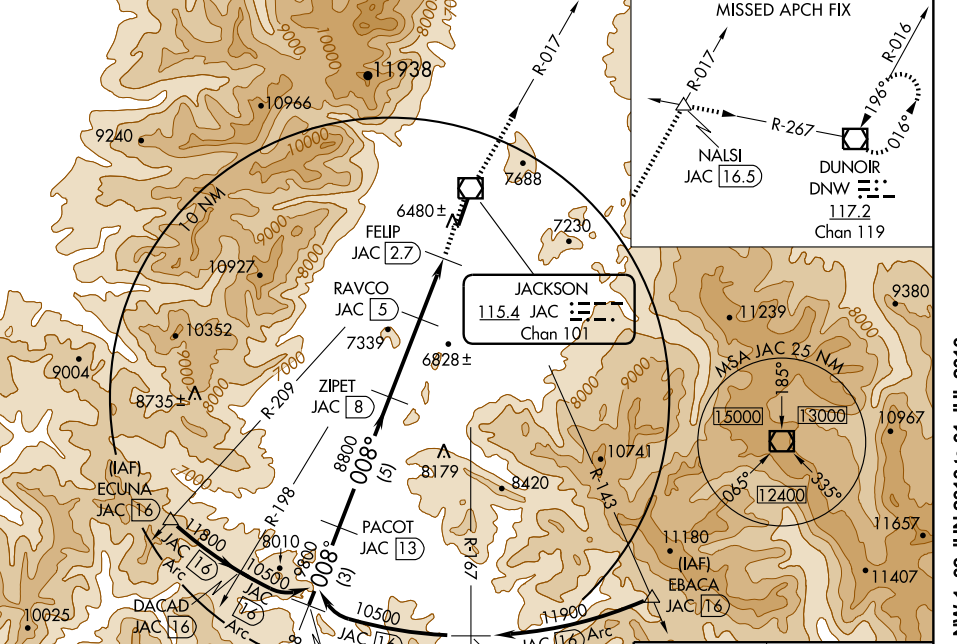
⚠

If local altimeter setting not received, procedure NA.

MALS

MISSED APPROACH: Climb to 14000 direct JAC VOR/DME, and via JAC R-017 to NALSI Int/JAC 16.5 DME, and right turn via DNW R-267 to DNW VOR/DME and hold.

ATIS 120.625	SALT LAKE CENTER 133.25 285.6	JACKSON TOWER* 118.075 (CTAF)	GND CON 124.55	UNICOM 122.95
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ELEV 6451

HIRL Rwy 1-19

ODREE JAC 16

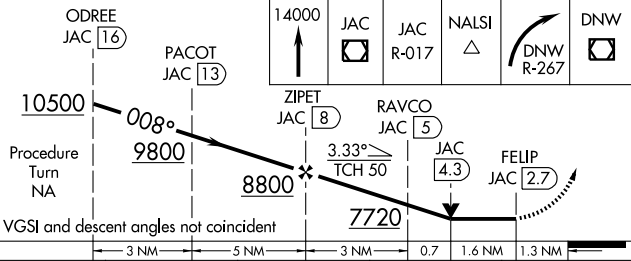
PACOT JAC 13

ZIPET JAC 8

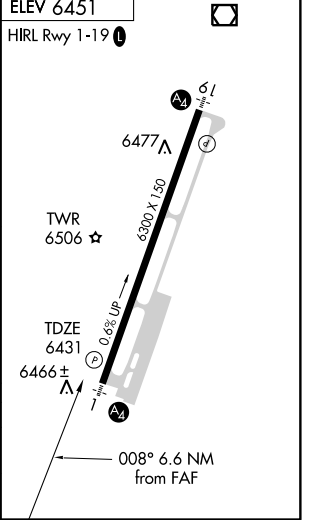
RAVCO JAC 5

JAC 4.3

FELIP JAC 2.7



CATEGORY	A	B	C	D
S-1	7380-1½ 949 (1000-1½)		7380-2¾ 949 (1000-2¾)	7380-3 949 (1000-3)
CIRCLING	7380-1½ 929 (1000-1½)		7380-2¾ 929 (1000-2¾)	7380-3 929 (1000-3)



VOR/DME JAC	APP CRS	Rwy Idg	6300
115.4	193°	TDZE	6451
Chan 101		Apt Elev	6451

✈

✈

Circling NA east of Rwy 1-19.

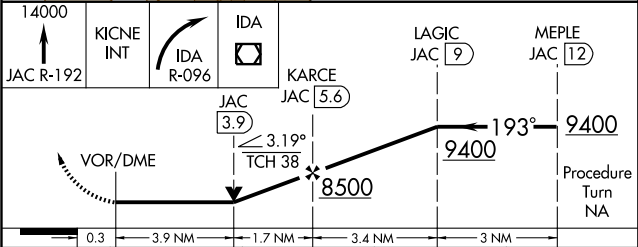
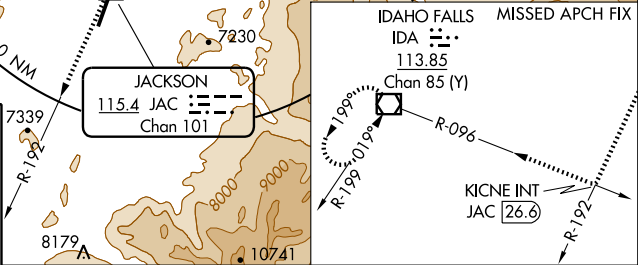
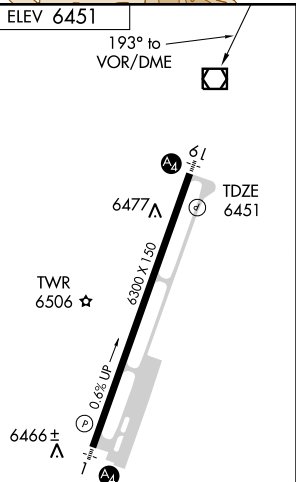
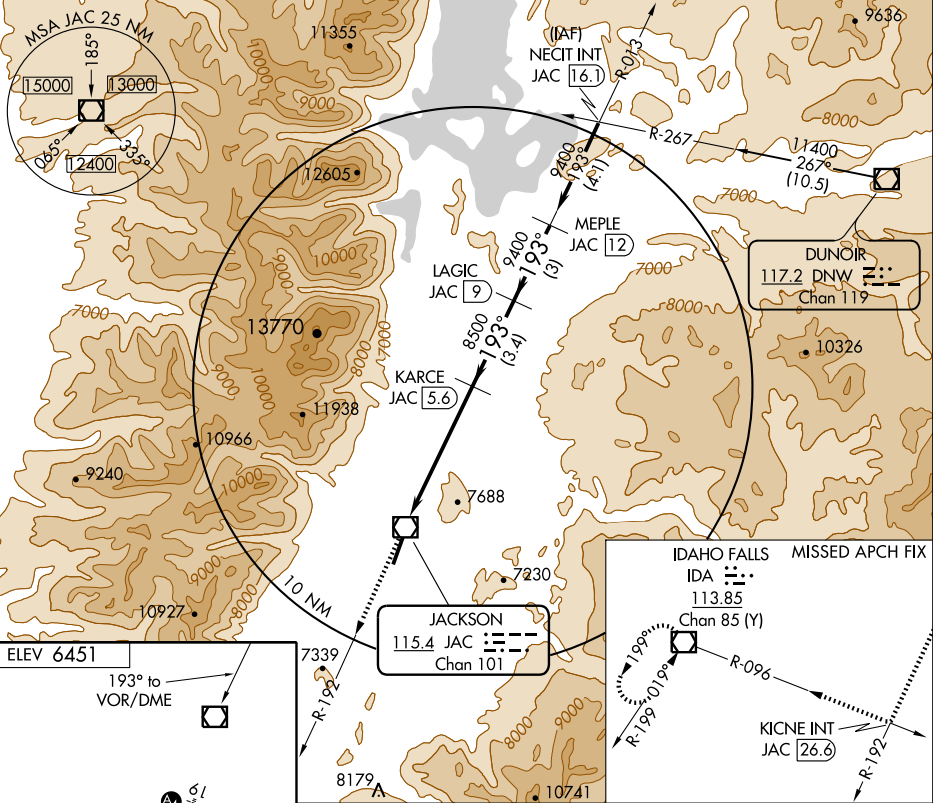
Inoperative table does not apply.

If local altimeter setting not received, procedure NA.

MALS

MISSED APPROACH: Climb to 14000 via JAC R-192 to KICNE INT/JAC 26.6 DME, and right turn via IDA R-096 to IDA VOR/DME and hold.

ATIS	SALT LAKE CENTER	JACKSON TOWER*	GND CON	UNICOM
120.625	133.25 285.6	118.075 (CTAF)	124.55	122.95

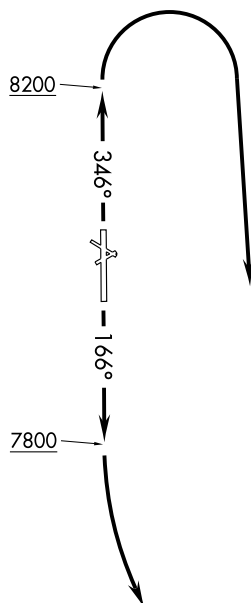


CATEGORY	A	B	C	D
S-19	7840-1¼ 1389 (1400-1¼)	7840-1½ 1389 (1400-1½)	7840-3	1389 (1400-3)
CIRCLING	7840-1¼ 1389 (1400-1¼)	7840-1½ 1389 (1400-1½)	7840-3	1389 (1400-3)

NW-1, 03 JUN 2010 to 01 JUL 2010

KEMRR TWO DEPARTURE (RNAV)

SALT LAKE CITY CENTER
124.35 353.5
SALT LAKE CITY DEP CON
124.3 322.3

TAKE-OFF MINIMUMS

Rwy 4, 10, 22, 28: NA - Rwy Surfaces.

Rwy 16, 34: Standard.

NOTE: 1. GPS Required.
2. RNAV 1.

NOTE: Chart not to scale.

FORT BRIDGER
FBR



DEPARTURE ROUTE DESCRIPTION

TAKE-OFF RUNWAY 16: Climb to 7800 via heading 166° then climbing left turn to 12000 (or assigned altitude) . . .

TAKE-OFF RUNWAY 34: Climb to 8200 via heading 346° then climbing right turn to 12000 (or assigned altitude) . . .

. . . direct FBR VOR/DME then via assigned route/fix.

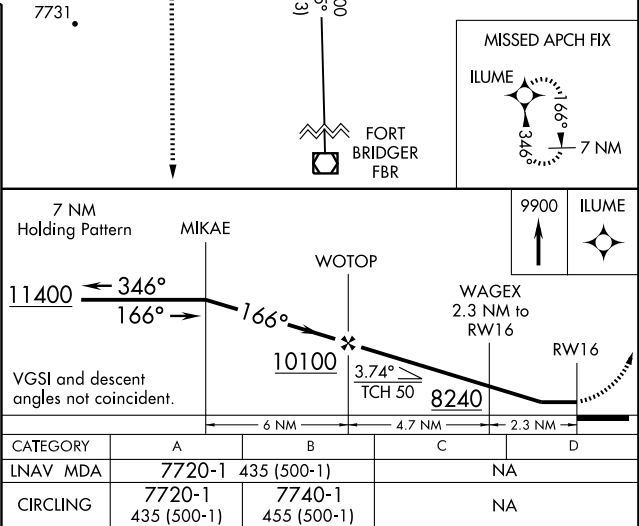
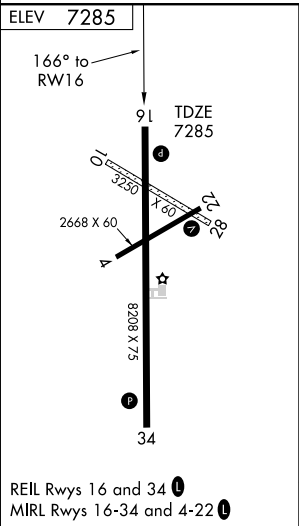
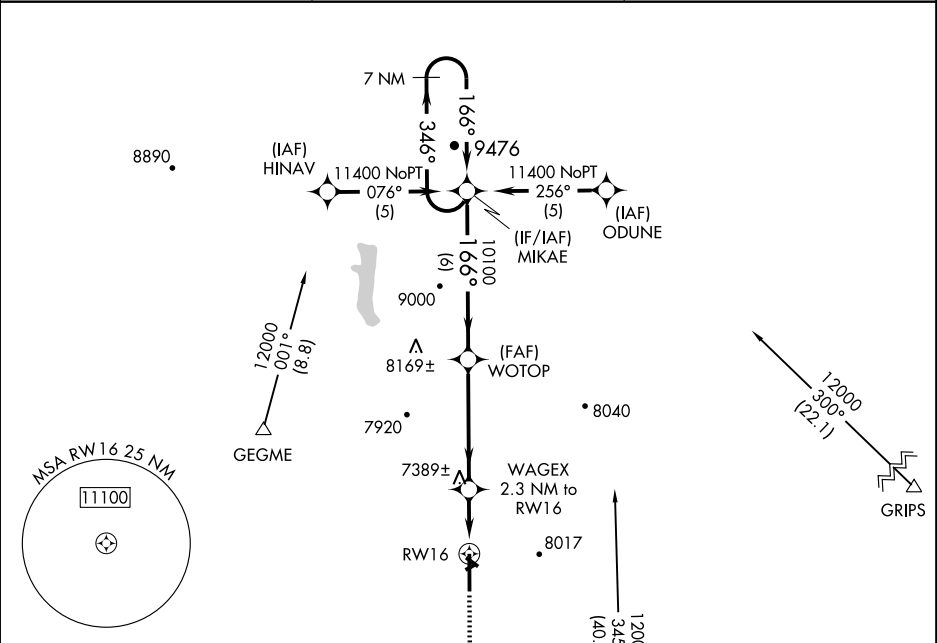
APP CRS	Rwy Idg	8208
166°	TDZE	7285
	Apt Elev	7285

RNAV (GPS) RWY 16

KEMMERER MUNI (EMM)

<p> DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Evanston altimeter setting and increase all MDA 120 feet.</p>	<p>MISSED APPROACH: Climb to 9900 direct ILUME and hold.</p>
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<p>AWOS-3 119.675</p>	<p>SALT LAKE CITY CENTER 124.35 353.5</p>	<p>UNICOM 122.8 (CTAF) </p>
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APP CRS	Rwy Idg	8208
346°	TDZE	7276
	Apt Elev	7285

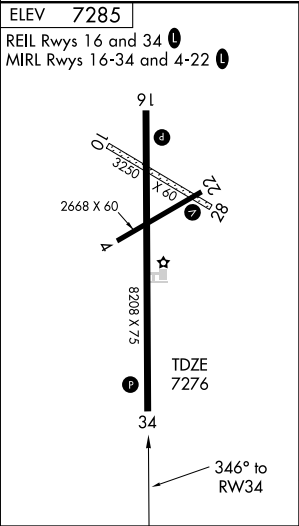
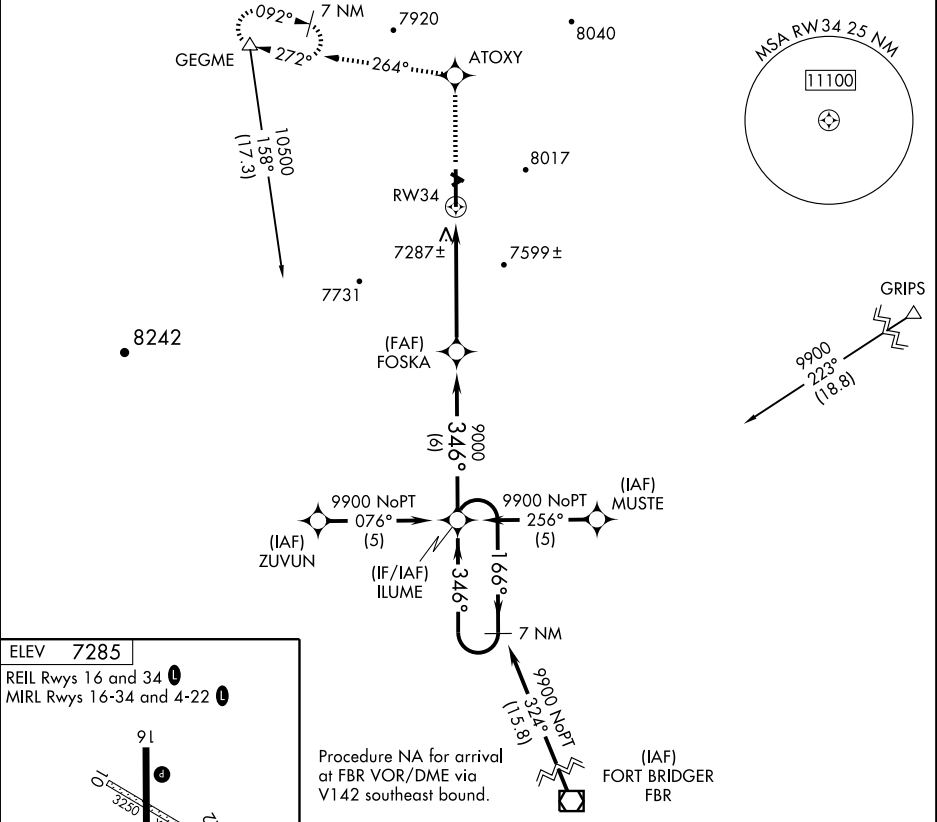
RNAV (GPS) RWY 34

KEMMERER MUNI (EMM)

DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Evanston altimeter setting and increase all MDA 120 feet.

MISSED APPROACH: Climb to 12000 direct ATOXY and via track 264° to GEGME and hold, continue climb-in-hold to 12000. When authorized by ATC, climb-in-hold to 14000.

AWOS-3 119.675	SALT LAKE CITY CENTER 124.35 353.5	UNICOM 122.8 (CTAF)
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12000	ATOXY	trk 264°	GEGME	ILUME		7 NM Holding Pattern
CATEGORY	A		B		C	D
LNNAV MDA	7540-1		264 (300-1)		NA	
CIRCLING	7640-1		7740-1		NA	
	355 (400-1)		455 (500-1)			

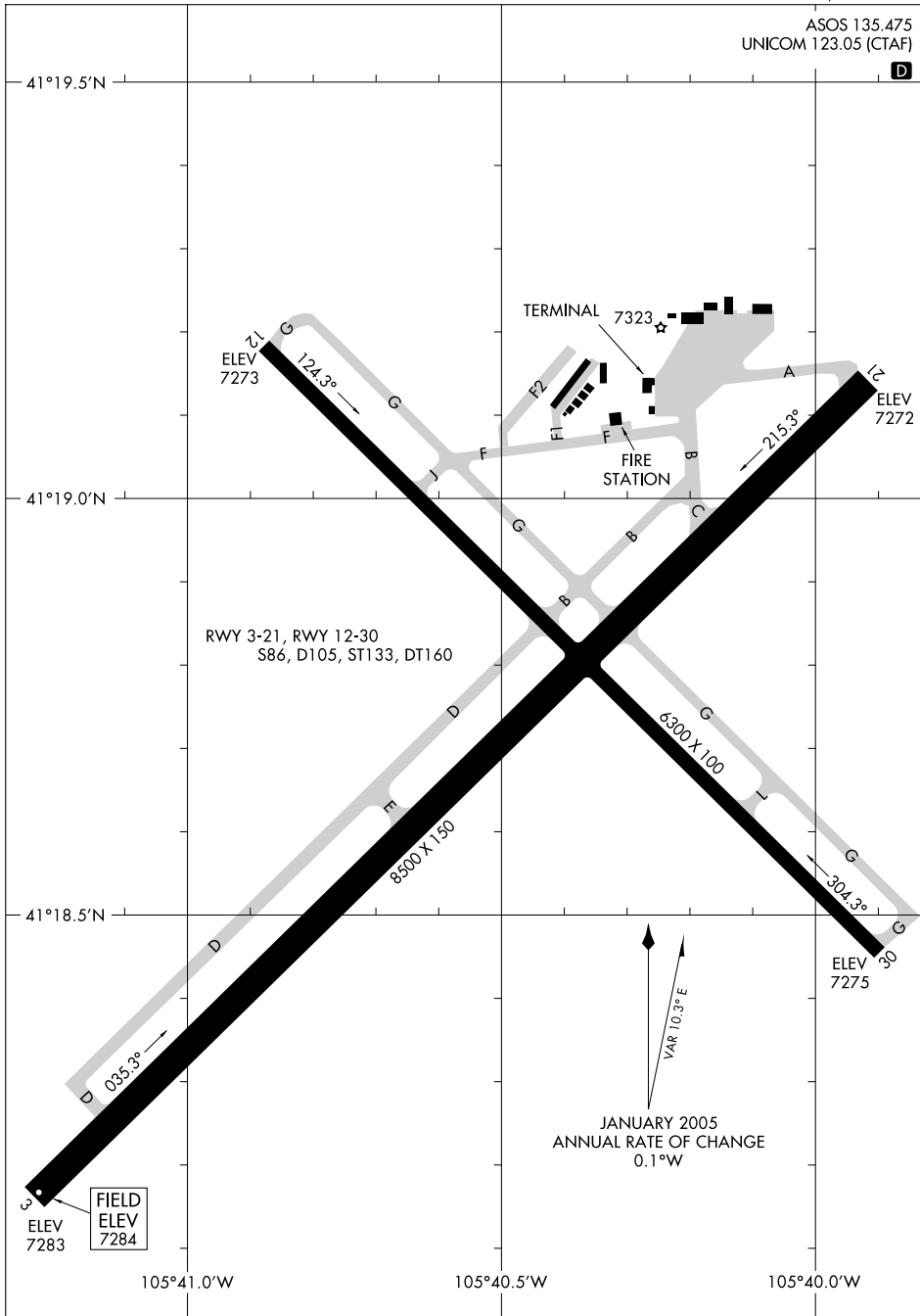
AIRPORT DIAGRAM

AL-225 (FAA)

LARAMIE RGNL (LAR)
LARAMIE, WYOMING

ASOS 135.475
UNICOM 123.05 (CTAF)

D



NW-1, 03 JUN 2010 to 01 JUL 2010

WAAS
CH 70600
W12A

APP CRS
122°

Rwy Idg	6300
TDZE	7275
Apt Elev	7284

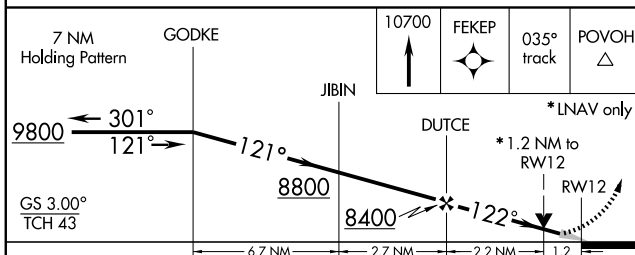
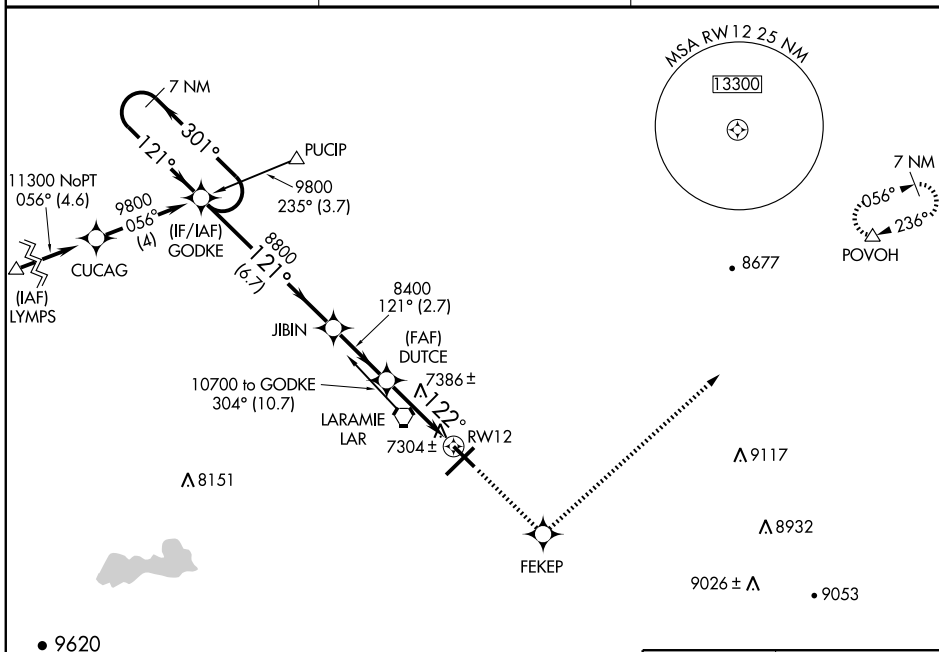
RNAV (GPS) RWY 12
LARAMIE RGNL (LAR)

LARAMIE RGNL (LAR)

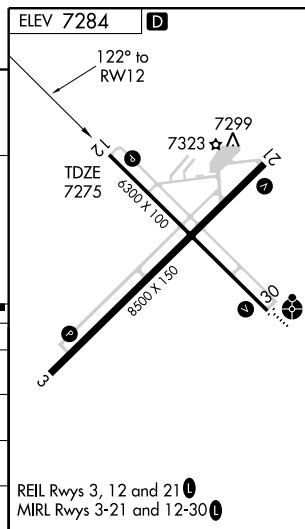


For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -29°C (-20°F) or above 34°C (93°F).

MISSED APPROACH: Climb to 10700 direct FEKEP and via 035° track to POVOH and hold.

ASOS
135.475DENVER CENTER
125.9 284.7UNICOM
123.05 (CTAF) **L**

CATEGORY	A	B	C	D
LPV DA	7525-1 250 (300-1)			
LNAV/ VNAV DA	7622-1¼ 347 (400-1¼)			
LNAV MDA	7700-1 425 (500-1)		7700-1¼ 425 (500-1¼)	
CIRCLING	7700-1¼ 416 (500-1¼)	7740-1¼ 456 (500-1¼)	7740-1½ 456 (500-1½)	7840-2 556 (600-2)

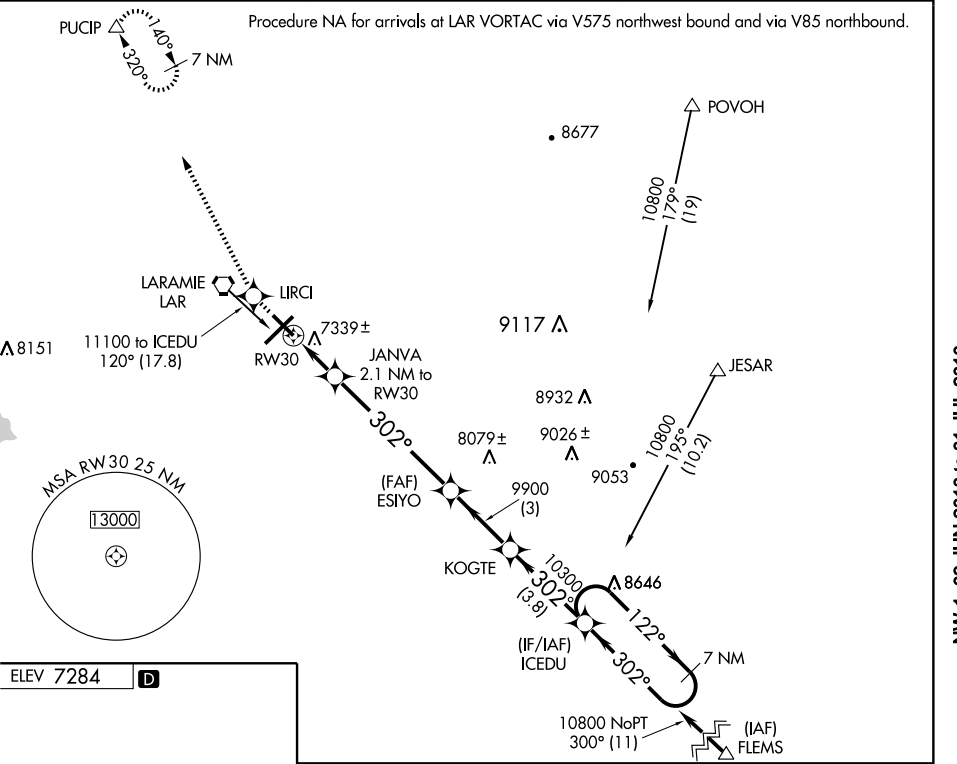


▼ Inoperative table does not apply.
DME/DME RNP -0.3 NA.
For uncompensated Baro-VNAV systems, LNAV/VNAV
NA below -29°C (-20°F) or above 35°C (95°F).

ODALS

MISSED APPROACH: Climb to 9400 direct LIRCI and via
320° track to PUCIP and hold.

ASOS 135.475	DENVER CENTER 125.9 284.7	UNICOM 123.05 (CTAF) 0
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Flight Path Profile:

- 9400' (9400)
- LIRCI
- 320° track
- PUCIP
- ICEDU
- 7 NM Holding Pattern
- KOGTE
- ESIYO
- JANVA
- 2.1 NM to RW30
- *LNAV only
- *0.9 NM to RW30
- RW30
- 7299
- 7323
- 7278
- TDZE
- 302° to RW30
- 8300 X 100
- 8500 X 150
- 122°
- 302°
- 10800
- 10300
- 7980
- 9900
- GS 3.00°
- TCH 41
- 0.9
- 1.2 NM
- 5.8 NM
- 3 NM
- 3.8 NM

CATEGORY	A	B	C	D
LPV DA	7528-1		250 (300-1)	
LNAV/VNAV DA	7629-1½		351 (400-1½)	
LNAV MDA	7600-1		322 (400-1)	
CIRCLING	7660-1½ 376 (400-1½)	7740-1½ 456 (500-1½)	7740-1½ 456 (500-1½)	7840-2 556 (600-2)

REIL Rwy 3, 12 and 21 0
MIRL Rwy 3-21 and 12-30 0

NW-1, 03 JUN 2010 to 01 JUL 2010

VORTAC LAR	APP CRS	Rwy Idg	6300
117.6	107°	TDZE	7275
Chan 123		Apt Elev	7284

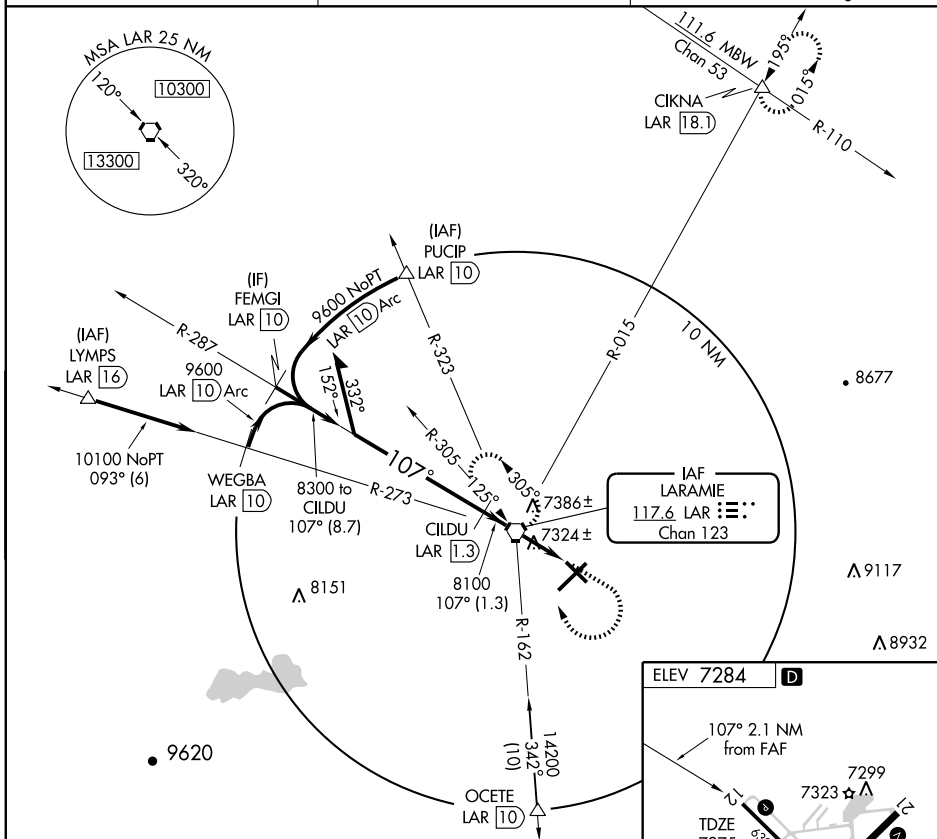
VOR/DME or TACAN RWY 12

LARAMIE RGNL (LAR)

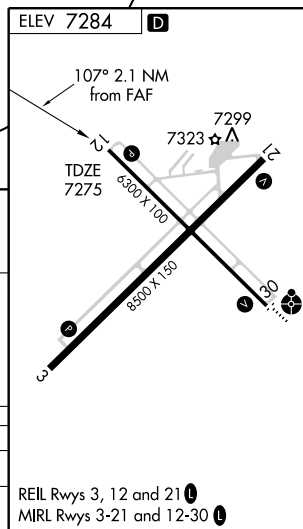


MISSED APPROACH: Climb to 7700 then climbing right turn to 9500 direct LAR VORTAC and hold, continue climb-in-hold to 9500 (TACAN aircraft continue climb to 10600 via LAR VORTAC R-015 to CIKNA/18.1 DME and hold north, left turn, 195° inbound).

ASOS 135.475	DENVER CENTER 125.9 284.7	UNICOM 123.05 (CTAF) 1
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Remain within 10 NM			
VORTAC			
7700 9500 LAR			
117.6			
VGSJ and descent angles not coincident.			
LAR 1.3 LAR 2.1			
3.53° TCH 43			
9600 8300 8100			
1.3 NM 1.3 NM 0.8 NM			
CATEGORY	A	B	C
S-12	7580-1 305 (300-1)		
CIRCLING	7660-1 376 (400-1)	7740-1 456 (500-1)	7740-1½ 456 (500-1½)
			7840-2 556 (600-2)



REIL Rwy 3, 12 and 21
MRL Rwy 3-21 and 12-30

VORTAC LAR <u>117.6</u> Chan 123	APP CRS 292°	Rwy Idg 6300 TDZE 7278 Apt Elev 7284
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VOR/DME or TACAN RWY 30

LARAMIE RGNL (LAR)

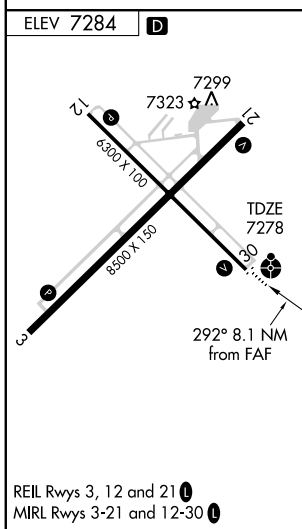
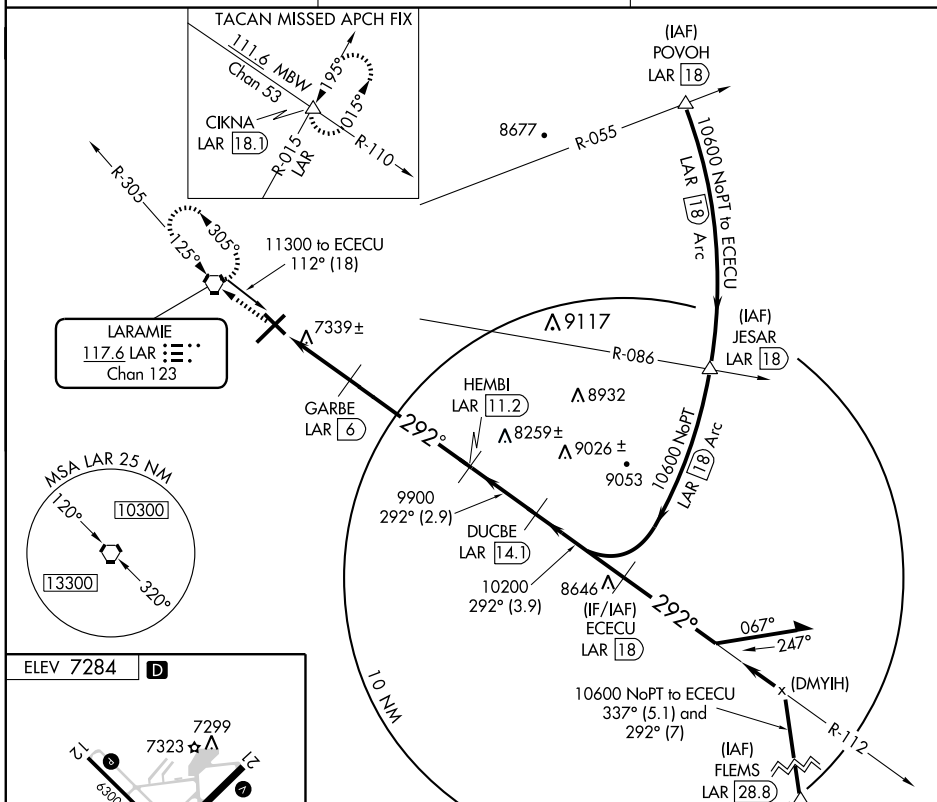
	ODALS 
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MISSED APPROACH: Climb to 9500 direct LAR VORTAC and hold, continue climb-in-hold to 9500 (TACAN aircraft continue climb to 10600 via LAR VORTAC R-015 to CIKNA INT/18.1 DME and hold north, left turns, 195° inbound).

ASOS
135.475

DENVER CENTER
125.9 284.7

UNICOM
123.05 (CTAF) 



CATEGORY	A	B	C	D
S-30	7600- $\frac{3}{4}$ 322 (400- $\frac{3}{4}$)			7600-1 322 (400-1)
CIRCLING	7660-1 376 (400-1)	7740-1 456 (500-1)	7740-1 $\frac{1}{2}$ 456 (500-1 $\frac{1}{2}$)	7840-2 556 (600-2)

VOR ECS	APP CRS	Rwy Idg	5300
<u>108.2</u>	323°	TDZE	4174
		Apt Elev	4174

VOR or GPS RWY 31
NEWCASTLE/MONDELL FIELD (ECS)

- T** Circling east of Rwy 13-31 not authorized. Obtain local
A altimeter setting on CTAF when not received procedure
not authorized.

ODALS

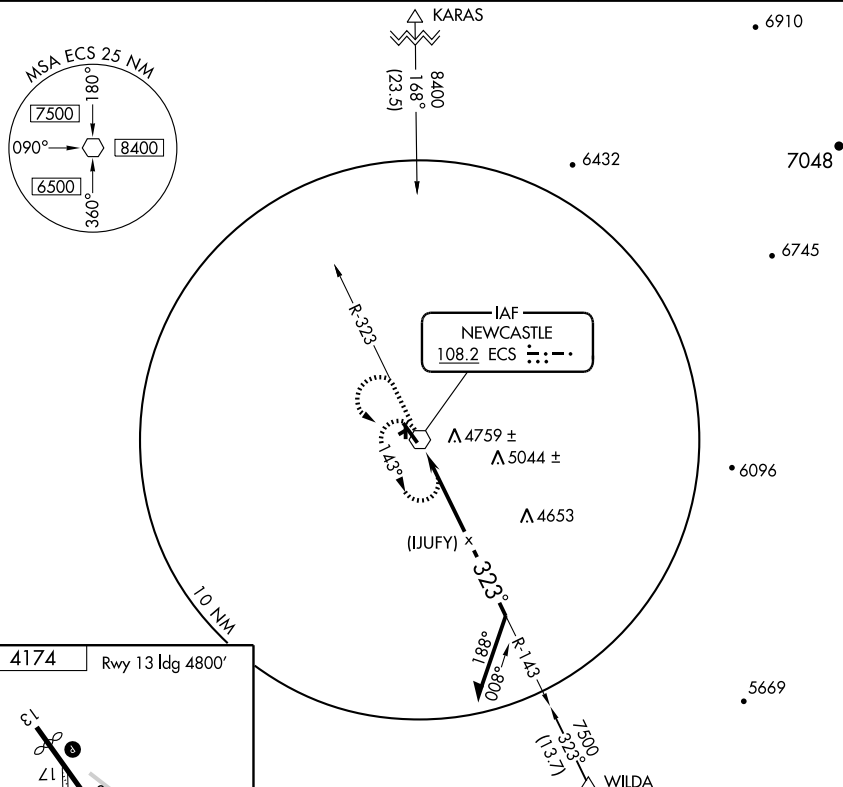


MISSED APPROACH: Climb to 5500 via ECS VOR R-323 then climbing left turn to 7500 direct ECS VOR and hold.

AWOS-3
118.0

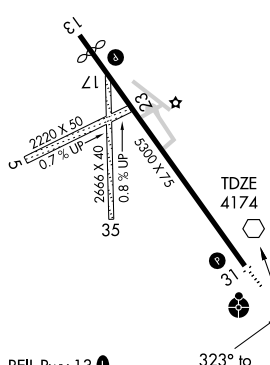
DENVER CENTER
127.95 338.2

UNICOM
122.8 (CTAF) **L**




NW-1. 03 JUN 2010 to 01 JUL 2010

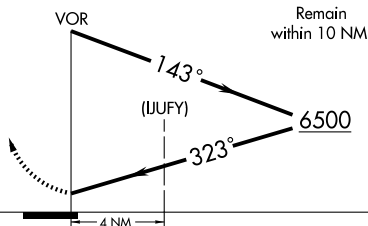
ELEV 4174	Rwy 13 ldg 4800'
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REIL Rwy 13 **L**
MIRL Rwy 13-31 **L**

Knots	60	90	120	150	180
Min:Sec					

5500	7500	ESC
↑	↖	
ESC R-323		<u>108.2</u>



CATEGORY	A	B	C	D
S-31	5060-1¼	886 (900-1¼)	5060-2¾ 886 (900-2¾)	5060-3 886 (900-3)
CIRCLING	5060-1¼	886 (900-1¼)	5060-2¾ 886 (900-2¾)	5060-3 886 (900-3)

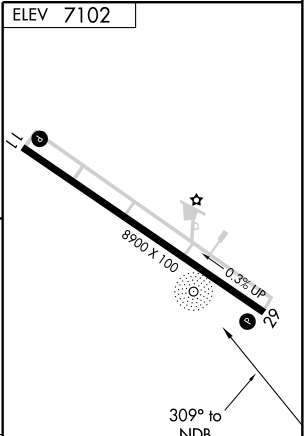
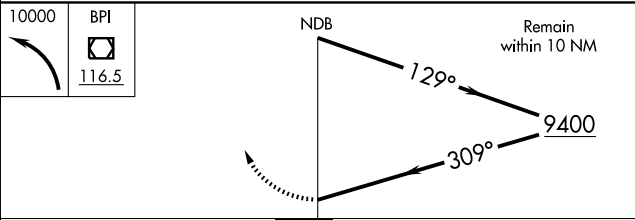
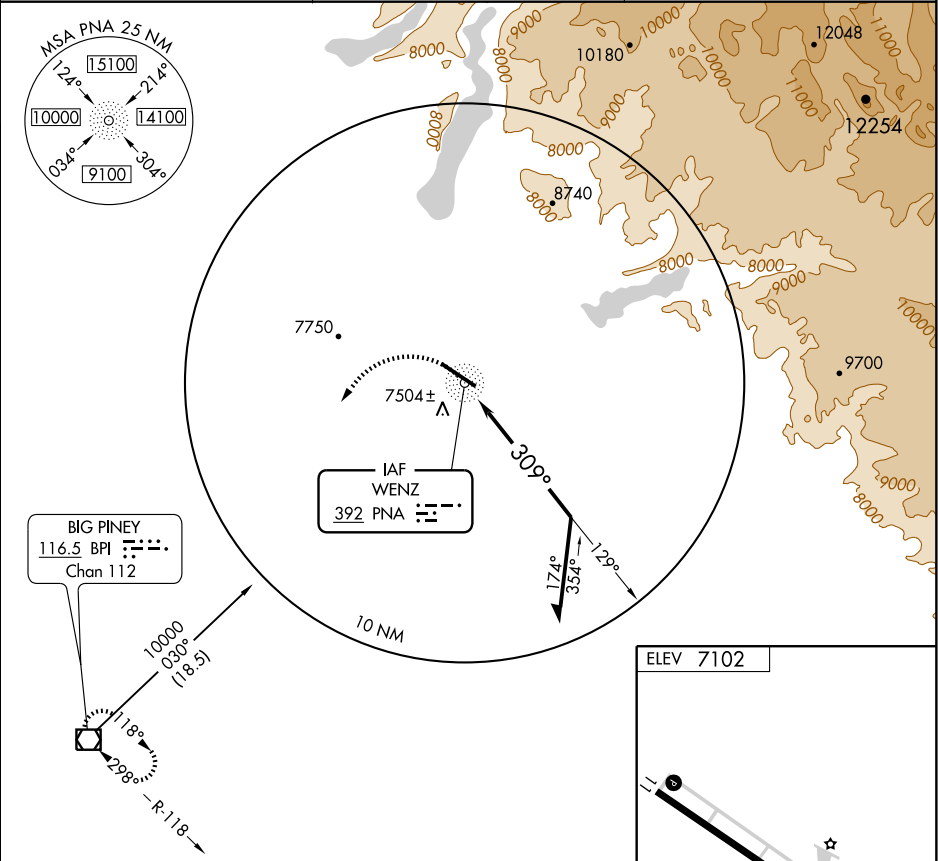
▼

▲

Procedure NA at night. When local altimeter setting not received, use Mima Memorial Field altimeter setting and increase all MDA 60 feet and visibility Cat C/D ¼ mile.

MISSED APPROACH: Climbing left turn to 10000 direct BPI VOR/DME and hold.

AWOS-3 118.325	SALT LAKE CENTER 128.35 239.25	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
CIRCLING	7900-1 798 (800-1)	7900-1¼ 798 (800-1¼)	7900-2¼ 798 (800-2¼)	7900-2½ 798 (800-2½)

REIL Rwy 11 and 29 0
MRL Rwy 11-29 0

APP CRS	Rwy Idg	8900
119°	TDZE	7102
	Apt Elev	7102

RNAV (GPS) RWY 11

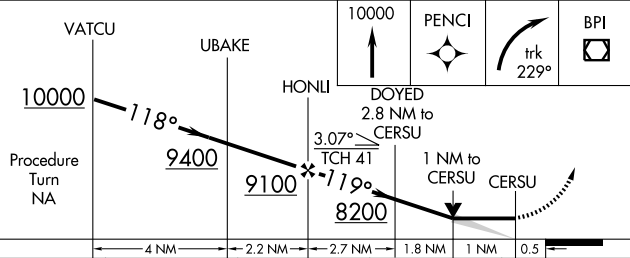
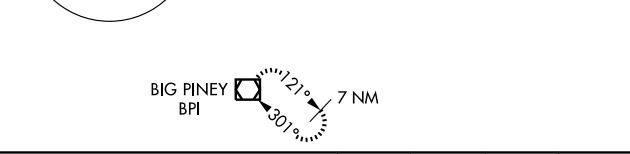
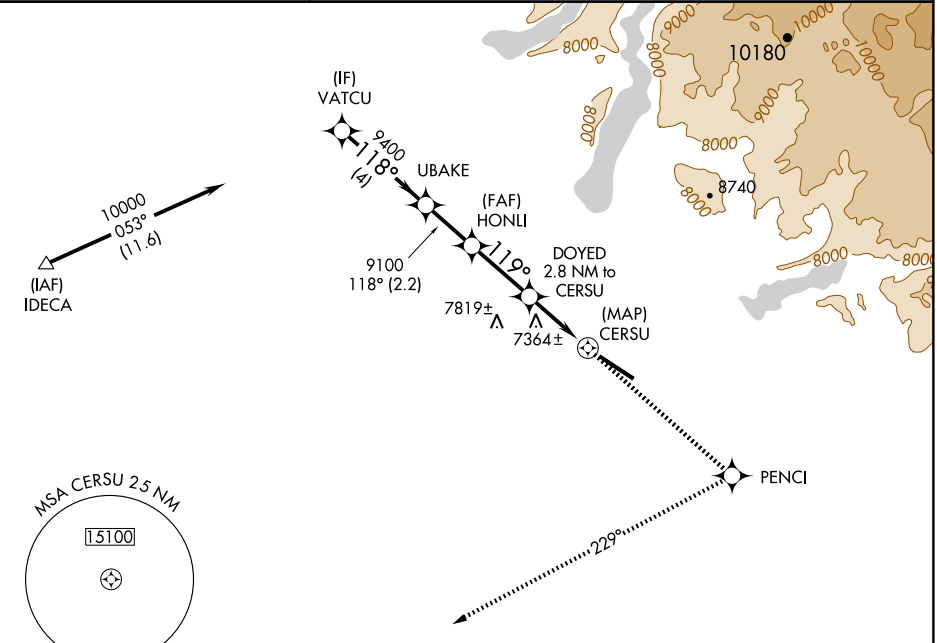
PINEDALE/ RALPH WENZ FIELD (PNA)

T Circling NA at night. DME/DME RNP- 0.3 NA. VDP NA when using Miley Memorial Field altimeter setting. When local altimeter setting not received, use Miley Memorial Field altimeter setting and increase all MDA 60 feet and circling Cats B/C/D visibility ¼ mile.

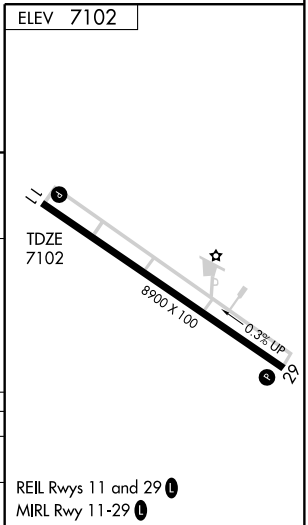
A

MISSED APPROACH: Climb to 10000 direct PENC1 and right turn via track 229° to BPI VOR/DME and hold.

AWOS-3 118.325	SALT LAKE CENTER 128.35 239.25	UNICOM 122.8 (CTAF) 1
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CATEGORY	A	B	C	D
LNAV MDA	7620-1 518 (600-1)	7620-1½ 518 (600-1½)	7620-1¾ 518 (600-1¾)	7620-2 518 (600-2)
CIRCLING	7760-1 658 (700-1)	7820-1 718 (800-1)	7840-2 738 (800-2)	7860-2½ 758 (800-2½)



NW-1, 03 JUN 2010 to 01 JUL 2010

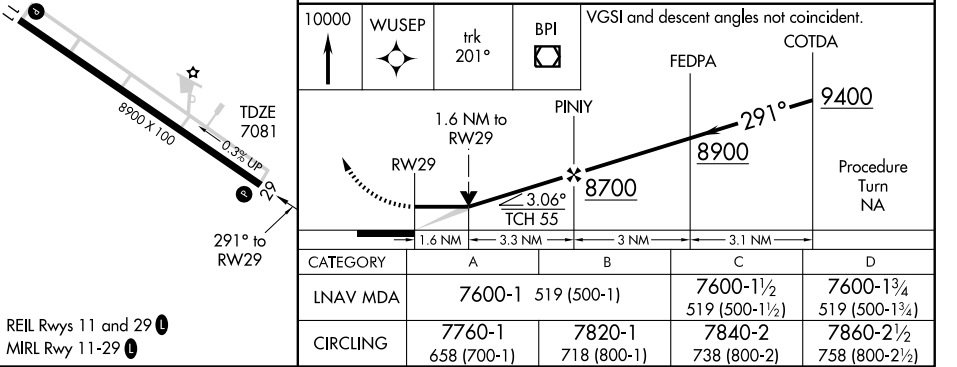
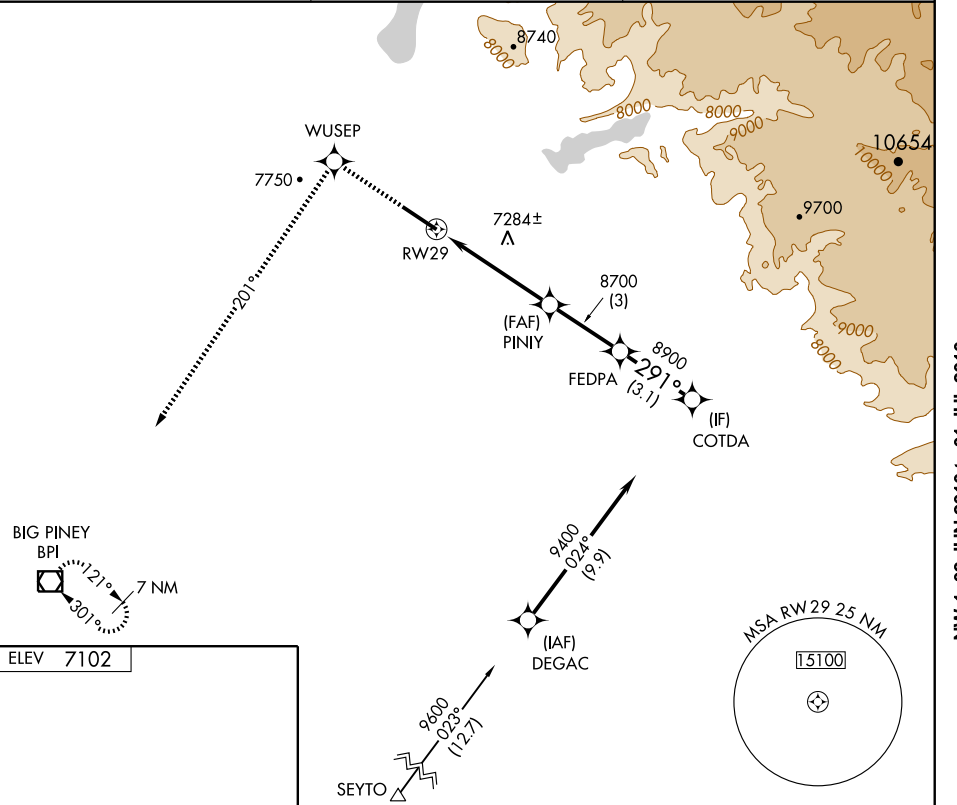
▼

▲

DME/DME RNP-0.3 NA. Procedure NA at night. VDP NA when using Miley Memorial Field altimeter setting. When local altimeter setting not received, use Miley Memorial Field altimeter setting and increase all MDA 60 feet and circling Cats B/C/D visibility ¼ mile.

MISSED APPROACH: Climb to 10000 direct WUSEP and via track 201° to BPI VOR/DME and hold.

AWOS-3 118.325	SALT LAKE CENTER 128.35 239.25	UNICOM 122.8 (CTAF) 0
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WAAS CH 93716 W22A	APP CRS 221°	Rwy Idg TDZE Apt Elev 7008 6813 6813
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RNAV (GPS) RWY 22

RAWLINS MUNI/HARVEY FIELD (RWL)

⚠ Circling NA NW of Rwy 4-22.
⚠ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -28°C (-18°F) or above 35°C (95°F).
DME/DME RNP-0.3 NA. Procedure NA at night.
Visibility reduction by helicopters NA.
When local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 11700 direct EFWOV and via track 254° to CKW VOR/DME and hold, continue climb-in-hold to 11700.

ASOS
118.525

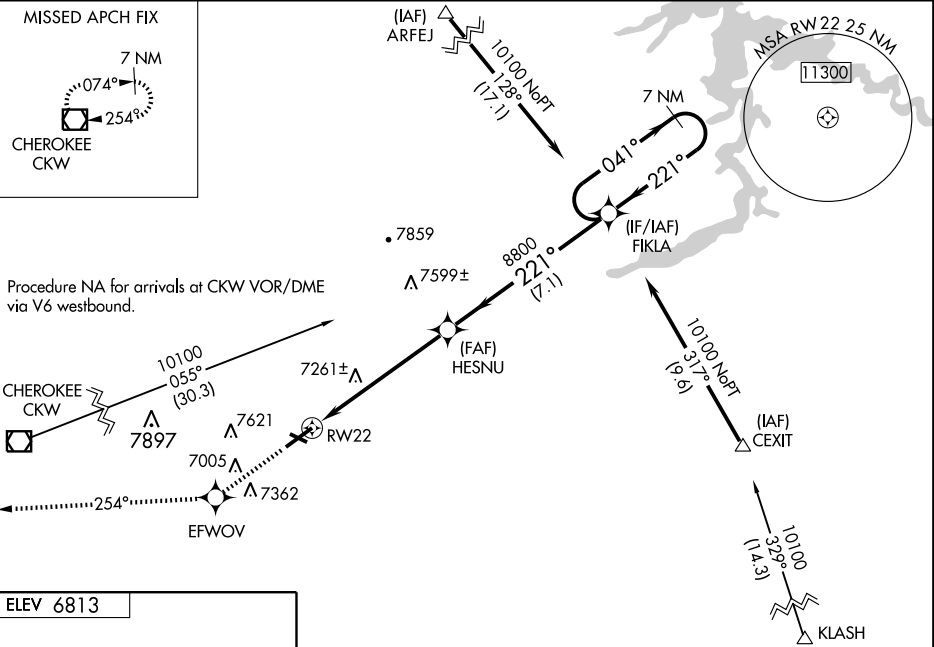
DENVER CENTER
132.1 254.35

UNICOM
123.0 (CTAF) 0

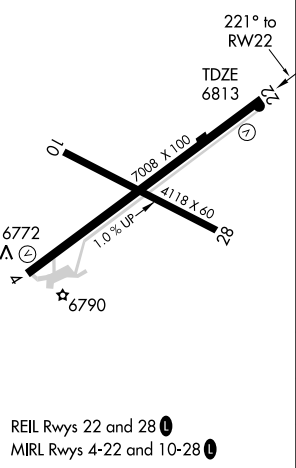
MISSED APCH FIX



Procedure NA for arrivals at CKW VOR/DME via V6 westbound.



ELEV 6813



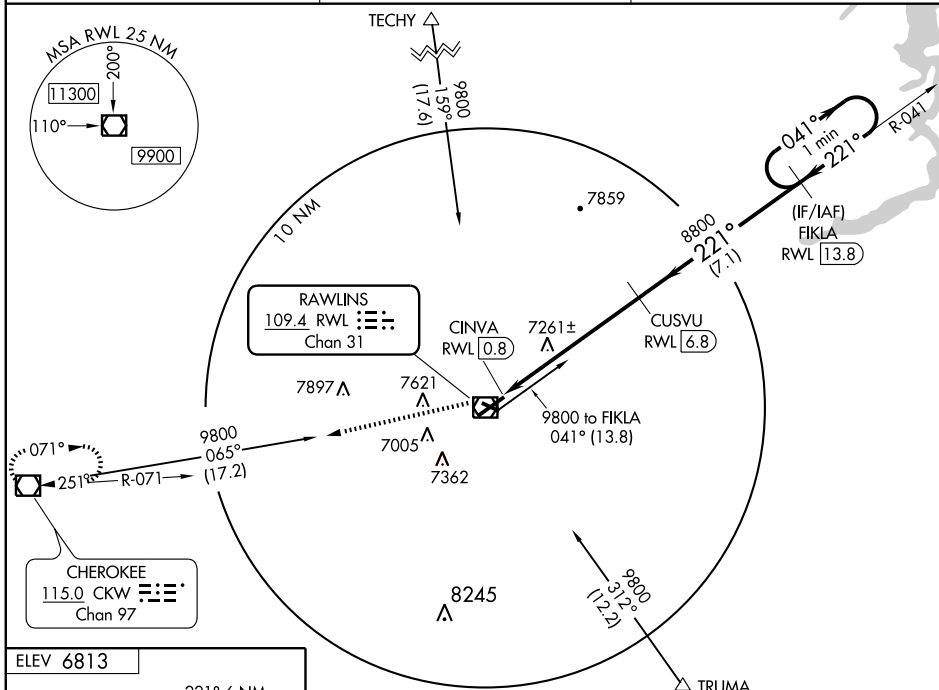
REIL Rwy 22 and 28 0
MIRL Rwy 4-22 and 10-28 0

11700	EFWOV	trk 254°	CKW	FIKLA	7 NM Holding Pattern
VGSi and RNAV glidepath not coincident		HESNU	8800	221°	041°
RW22		8800	8800	221°	10100
6 NM		7.1 NM			GS 3.00° TCH 53
CATEGORY	A	B	C	D	
LPV DA	7143-1¼ 330 (400-1¼)				
LNAV/VNAV DA	7711-4 898 (900-4)				
LNAV MDA	7660-1 847 (900-1)	7660-1¼ 847 (900-1¼)	7660-2½ 847 (900-2½)	7660-2¾ 847 (900-2¾)	7680-2¾ 847 (900-2¾)
CIRCLING	7660-1 847 (900-1)	7660-1¼ 847 (900-1¼)	7660-2½ 847 (900-2½)	7680-2¾ 847 (900-2¾)	7680-2¾ 847 (900-2¾)

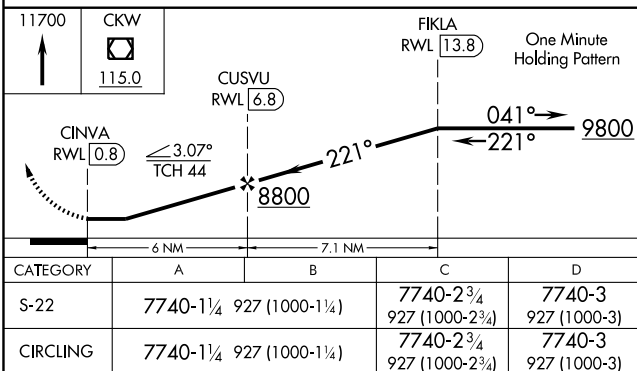
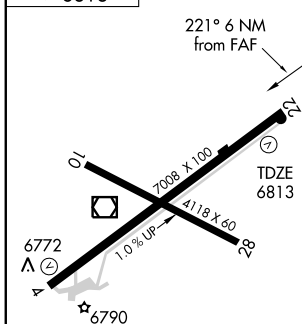
VOR/DME RWY 22
RAWLINS MUNI/HARVEY FIELD (RWL)

MISSED APPROACH: Climb to 11700 direct CKW VOR/DME and hold, continue climb-in-hold to 11700.

UNICOM
123.0 (CTAF) **L**



ELEV 6813



REIL Rwys 22 and 28 **L**
MIRL Rwys 4-22 and 10-28 **L**

NW-1. 03 JUN 2010 to 01 JUL 2010

When local altimeter setting not received, use Lander altimeter setting and increase all DA 53 feet, all MDA 60 feet, and S-LOC Cat D visibility ¼ mile.

For inoperative MALSRR when, using Lander altimeter setting, increase S-ILS all Cnts visibility to 1 mile.

MALSRR

MISSED APPROACH: Climb to 6800 then climbing right turn to 7700 direct RIW VOR/DME and hold.

ASOS 121.425	SALT LAKE CENTER 133.25 285.6	UNICOM 122.8 (CTAF)
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ALTERNATE MISSED APCH FIX

FETIK BOY 11.4

117.8 BOY R-180 Chan 125

360° 180°

(IAF) FETIK RIW 13.4

BOYSEN RESERVOIR 117.8 BOY Chan 125

LOCALIZER 110.5 I-RIW

R-360

10 NM

9700 (29.9)

154°

8600 NoPT RIW 13.4 Arc

R-154

8600 to DONVY 099° (13.4)

7700

283° (6)

LR-090

103° 1 min 283° 103°

LR-108

(IF/IAF) DONVY INT RIW 13.4

LIMNY INT RIW 7.4

R-164

(IAF) HONOX RIW 13.4

8600 NoPT RIW 13.4 Arc

MSA RIW 2.5 NM

9700

070° 250°

11900

8700

340°

ELEV 5528

1.4% DOWN

61

8203 x 1.50

5544

0.3% UP

0.7% UP

28

5513

TDZE 5456

283° 6.8 NM from FAF

REIL Rwy 1, 10 and 19

MIRL Rwy 1-19

HIRL Rwy 10-28

FAF to MAP 6.8 NM

Knots	60	90	120	150	180
Min:Sec	6:48	4:32	3:24	2:43	2:16

	6800	7700	RIW 108.8	DONVY INT RIW 13.4	One Minute Holding Pattern
			LIMNY INT RIW 7.4		
			7700		
			283°	103°	8600
			283°		
			6.8 NM	6 NM	
					GS 3.00° TCH 50
CATEGORY	A	B	C	D	
S-ILS 28		5656-½	200 (200-½)		
S-LOC 28		5880-½ 424 (400-½)	5880-¾ 424 (400-¾)		
CIRCLING		5980-1 452 (500-1)	5980-1½ 452 (500-1½)	6080-2 552 (600-2)	

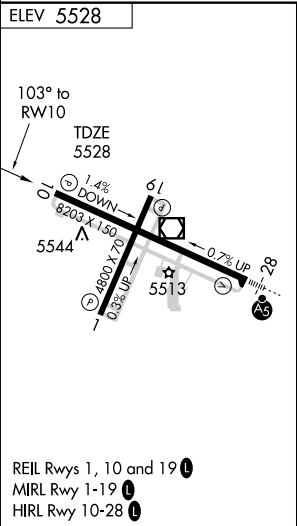
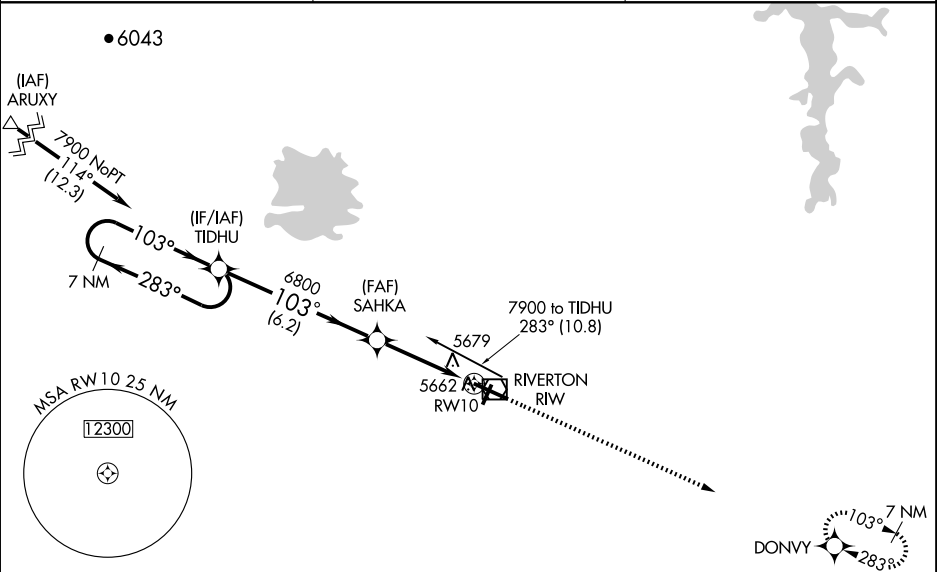
NW-1, 03 JUN 2010 to 01 JUL 2010

▼ For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -26°C (-14°F) or above 37°C (98°F).

▲ DME/DME RNP-0.3 NA. Visibility reduction by helicopters NA. When local altimeter setting not received, use Lander altimeter setting and increase all DA 53 feet and all MDA 60 feet, and increase LPV and LNAV-VNAV all Cats and LNAV Cat D visibility ¼ mile. Baro-VNAV and VDP NA when using Lander altimeter setting.

MISSED APPROACH: Climb to 8600 direct DONVY and hold.

ASOS 121.425	SALT LAKE CENTER 133.25 285.6	UNICOM 122.8 (CTAF) 0
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	7 NM Holding Pattern	TIDHU	VGSI and RNAV glidepath not coincident.	SAHKA	8600	DONVY
	7900	283°	103°	103°	6800	*1.1 NM to RW10
	GS 3.00°	TCH 50	6.2 NM	2.7 NM	1.1 NM	*LNAV only
CATEGORY	A	B	C	D		
LPV DA	5919-1¼	391 (400-1¼)				
LNAV/VNAV DA	5976-1½	448 (500-1½)				
LNAV MDA	5940-1	412 (500-1)	5940-1¼	412 (500-1¼)		
CIRCLING	5980-1	452 (500-1)	5980-1½	6080-2	552 (600-2)	

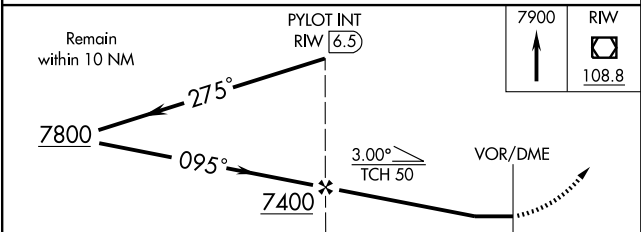
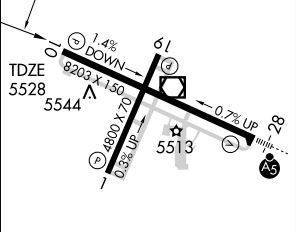
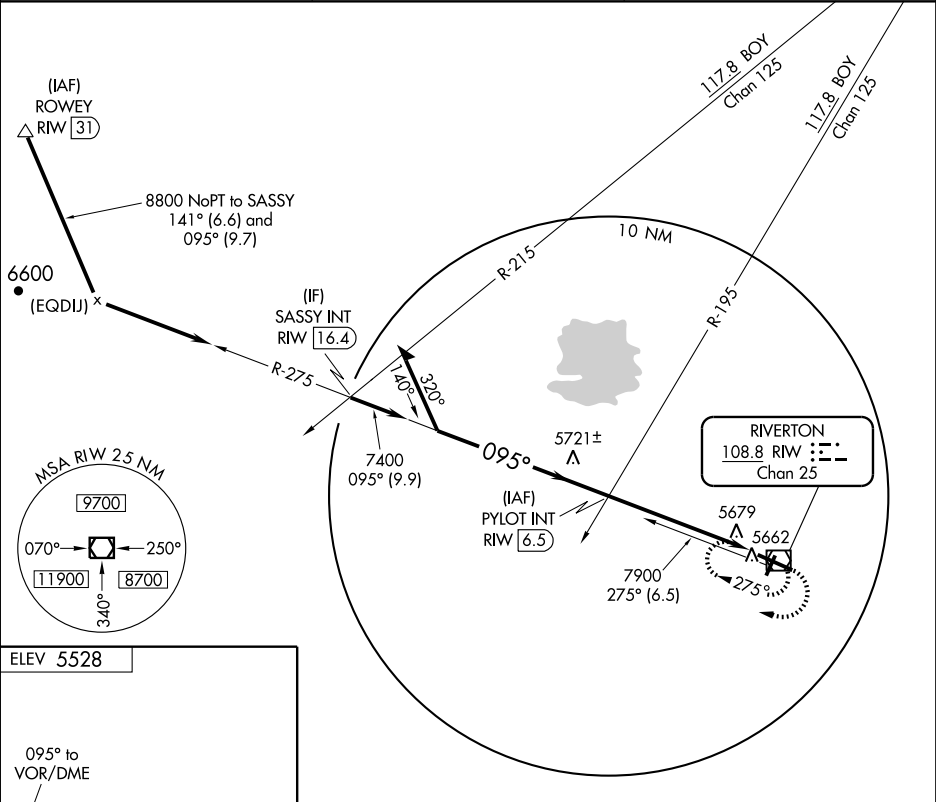
VOR/DME RIW 108.8 Chan 25	APP CRS 095°	Rwy Idg TDZE Apt Elev	8203 5528 5528
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VOR RWY 10
RIVERTON RGNL (RIW)

▼ Visibility reduction by helicopters NA.
▲ When local altimeter setting not received, use Lander altimeter setting and increase all MDA 60 feet and increase S-10 Cat D visibility ¼ mile.

MISSED APPROACH: Climb to 7900 in RIW VOR/DME holding pattern.

ASOS 121.425	SALT LAKE CENTER 133.25 285.6	UNICOM 122.8 (CTAF) 0
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REIL Rwy 1, 10 and 19
MIRL Rwy 1-19
HIRL Rwy 10-28

CATEGORY	A	B	C	D
S-10	5940-1	412 (500-1)	5940-1¼	412 (500-1¼)
CIRCLING	5980-1	452 (500-1)	5980-1½	6080-2 452 (500-1½) 552 (600-2)

VOR/DME RIW 108.8 Chan 25	APP CRS 287°	Rwy Idg TDZE Apt Elev	8203 5456 5528
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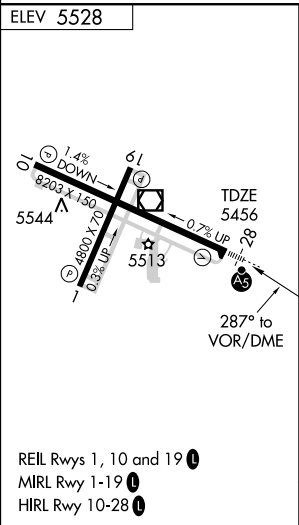
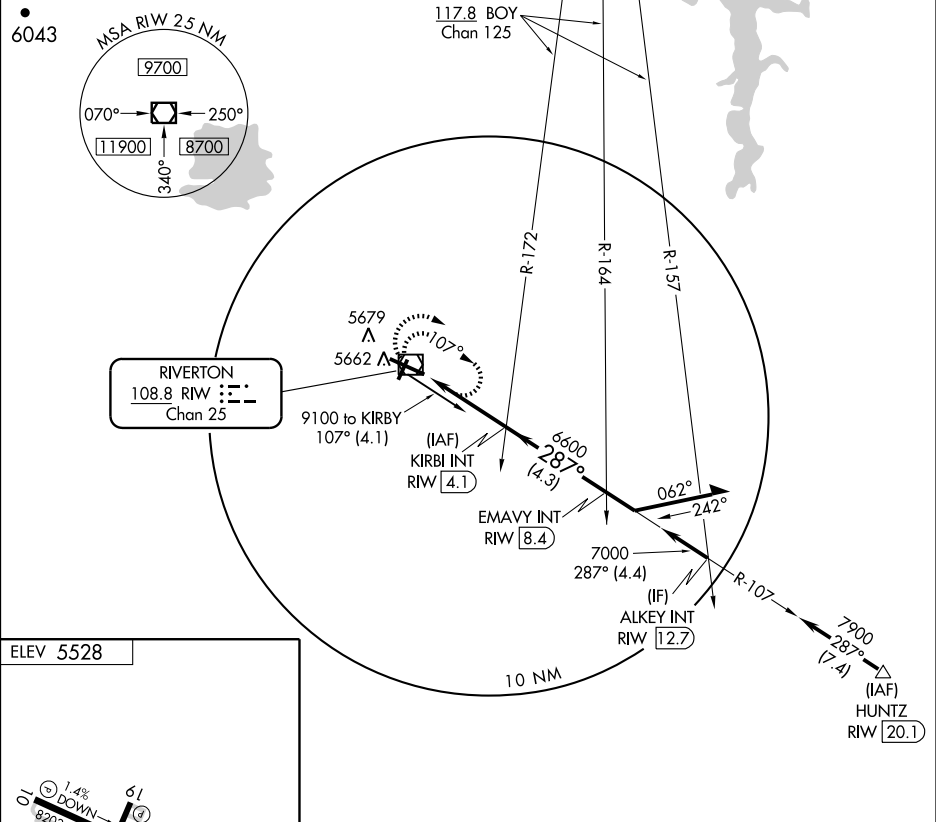
VOR RWY 28
RIVERTON RGNL (RIW)

When local altimeter setting not received, use Lander altimeter setting and increase all MDA 60 feet and S-28 Cats C and D visibility ¼ mile. VDP NA when using Lander altimeter setting.



MISSED APPROACH: Climb to 7700 in RIW VOR/DME holding pattern.

ASOS 121.425	SALT LAKE CENTER 133.25 285.6	UNICOM 122.8 (CTAF) 0
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	7700	RIW 108.8	KIRBI INT RIW 4.1	Remain within 10 NM
			RIW 2	
			VOR/DME	
			2.98°	
			TCH 52	
			6600	
			1.4 NM	
			2.1 NM	
CATEGORY	A	B	C	D
S-28	5940-½ 484 (500-½)		5940-¾ 484 (500-¾)	5940-1 484 (500-1)
CIRCLING	5980-1 452 (500-1)		5980-1½ 452 (500-1½)	6080-2 552 (600-2)

LOC/DME I-RKS 109.3 Chan 30	APP CRS 270°	Rwy Idg TDZE Apt Elev	10000 6764 6764
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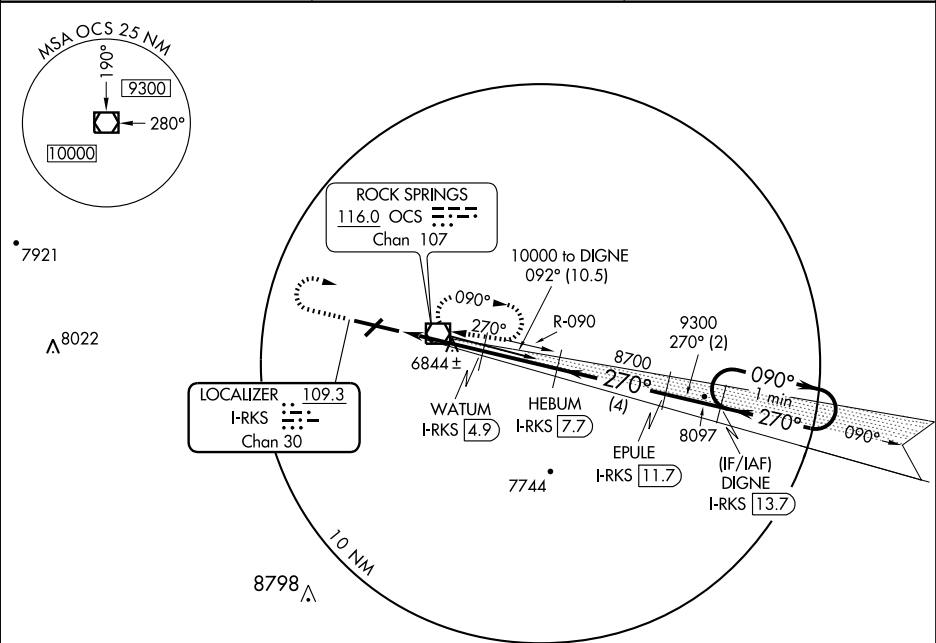
ILS or LOC/DME RWY 27
ROCK SPRINGS-SWEETWATER COUNTY (RKS)

For inoperative MALS, increase S-LOC 27 Cat. D visibility to 1 mile. Autopilot coupled approach NA below 7000. Glideslope unusable beyond 5 degrees left of course.

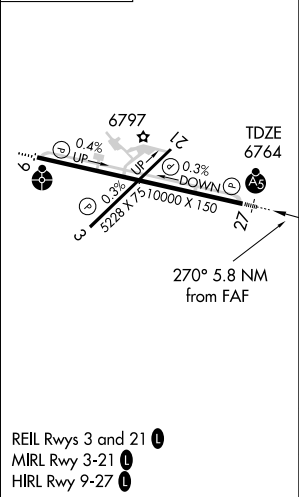


MISSED APPROACH: Climb to 7600, then climbing right turn to 9300 direct OCS VOR/DME and hold, continue climb-in-hold to 9300.

ASOS 118.375	CASPER RADIO 122.6	UNICOM 122.8 (CTAF) 0
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ELEV 6764



	7600	9300	OCS 116.0	Use I-RKS DME when on localizer course.	
			HEBUM I-RKS 7.7	EPULE I-RKS 11.7	DIGNE I-RKS 13.7
			WATUM I-RKS 4.9		
			I-RKS 1.8	I-RKS 2.7	
				7800*	7800
				8700	8700
				9300	9300
				090°	270°
				GS 3.00°	TCH 49
				0.9	2.2 NM
				2.7 NM	4 NM
				2 NM	
CATEGORY	A	B	C	D	
S-ILS-27	6964- 1/2 200 (200-1/2)				
S-LOC 27	7100-1/2 336 (400-1/2)				7100-3/4 336 (400-3/4)
CIRCLING	7140-1 376 (400-1)	7220-1 456 (500-1)	7220-1 1/2 456 (500-1 1/2)	7320-2 556 (600-2)	

NW-1. 03 JUN 2010 to 01 JUL 2010

WAAS

CH 66016

W09A

APP CRS

090°

Rwy Idg

TDZE

Apt Elev

10000

6741

6764

For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -28°C (-18°C) or above 35°C (95°F). DME/DME RNP-0.3 NA.

ODALS

MISSED APPROACH: Climb to 9600 direct DIGNE and hold.

ASOS 118.375	CASPER RADIO 122.6	UNICOM 122.8 (CTAF)
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Diagram illustrating the RNAV (GPS) RWY 9 procedure. Key waypoints and altitudes include: (IAF) GRIPS, 9800 NoPT 092° (35), (IF/IAF) REGVE 7921, 8700 090° (6.1), (FAF) ZEREX, SIRNE 2.1 NM to RW09, 6764 ±, RW09, 9800 to REGVE 269° (15), and ROCK SPRINGS OCS. A missed approach fix diagram shows a climb to 7 NM, 090°, and a turn to 270° to DIGNE. A circular MSA diagram shows a 25 NM radius with an altitude of 10000.

7 NM Holding Pattern REGVE					ELEV 6764	
9800 ← 270° → 090° →					9600 DIGNE	
ZEREX					090° to RW09	
SIRNE 2.1 NM to RW09					TDZE 6741 6797	
* 0.8 NM to RW09					0.4% UP 0.3% DOWN	
RW09					5228 X 1510000 X 150	
6.1 NM 3.8 NM 1.3 NM 0.8 NM					REIL Rwy 3 and 21	
CATEGORY	A	B	C	D	MIRL Rwy 3-21	
LPV DA	6941-3/4 200 (200-3/4)				HIRL Rwy 9-27	
LNAV/VNAV DA	7034-3/4 293 (300-3/4)			7034-1 293 (300-1)		
LNAV MDA	7040-3/4 299 (300-3/4)			7040-1 299 (300-1)		
CIRCLING	7140-1 376 (400-1)	7220-1 456 (500-1)	7220-1 1/2 456 (500-1 1/2)	7320-2 556 (600-2)		

NW-1. 03 JUN 2010 to 01 JUL 2010

WAAS CH 49216 W27A	APP CRS 270°	Rwy Idg TDZE Apt Elev	10000 6764 6764
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RNAV (GPS) RWY 27

ROCK SPRINGS-SWEETWATER COUNTY (RKS)

▼

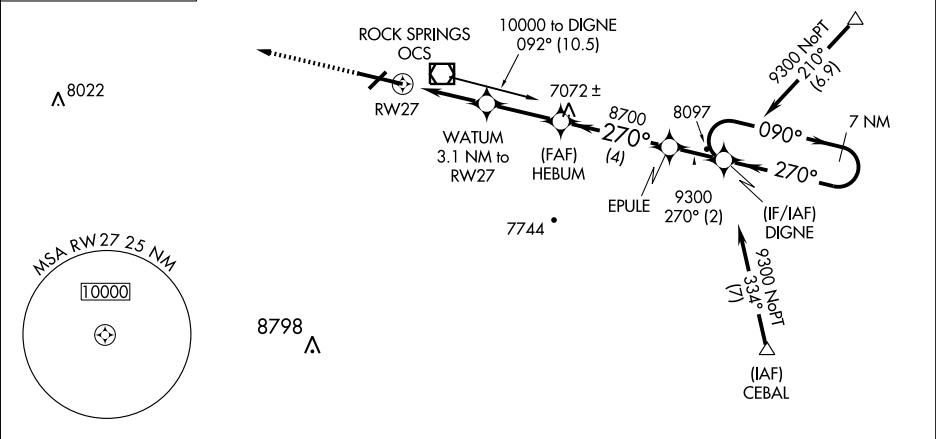
For inoperative MALS, increase LNAV/VNAV Cat. D visibility to 1 mile. For uncompensated Baro-VNAV systems, LNAV/VNAV NA below -28°C (-18°F) or above 35° C (95°F). Inoperative table does not apply to LNAV Cat. D. DME/DME RNP-0.3 NA.

MALS

MISSED APPROACH: Climb to 9800 direct REGVE and hold.

ASOS 118.375	CASPER RADIO 122.6	UNICOM 122.8 (CTAF) 0
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MISSED APCH FIX



ELEV 6764

Procedure NA for arrivals at OCS
VOR/DME on V235 southwest bound.

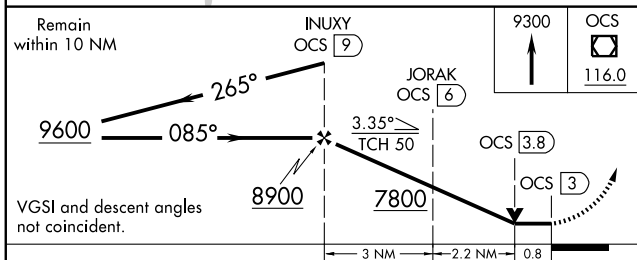
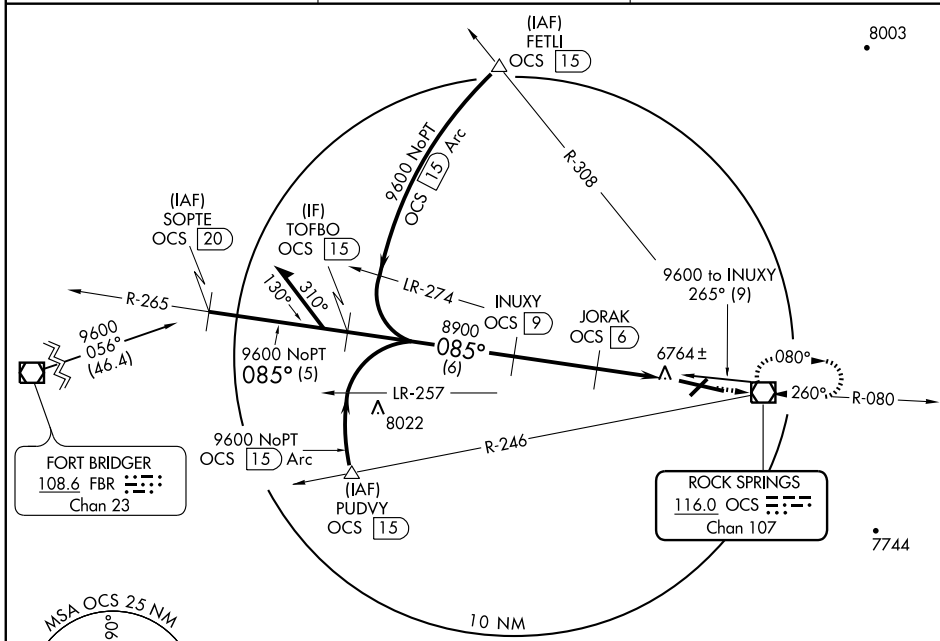
9800 REGVE					
*LNAV only					
CATEGORY	A	B	C	D	
LPV DA	6964-1/2		200 (200-1/2)		
LNAV/VNAV DA	7035-1/2		271 (300-1/2)		7035-3/4 271 (300-3/4)
LNAV MDA	7100-1/2		336 (400-1/2)		7100-1 336 (400-1)
CIRCLING	7140-1 376 (400-1)	7220-1 456 (500-1)	7220-1 1/2 456 (500-1 1/2)	7320-2 556 (600-2)	

VOR/DME OCS 116.0 Chan 107	APP CRS 085°	Rwy Idg TDZE Apt Elev 6741 6764
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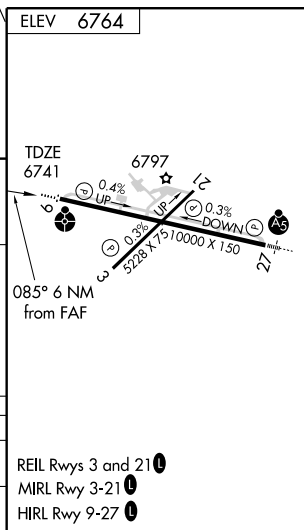
VOR/DME RWY 9

ROCK SPRINGS-SWEETWATER COUNTY (RKS)

		ODALS 	MISSED APPROACH: Climb to 9300 direct OCS VOR/DME and hold, continue climb-in-hold to 9300.
ASOS 118.375	CASPER RADIO 122.6		UNICOM 122.8 (CTAF) 0



CATEGORY	A	B	C	D
S-9	7020-1/4 279 (300-1/4)			7020-1 279 (300-1)
CIRCLING	7140-1 376 (400-1)	7220-1 456 (500-1)	7220-1 1/2 456 (500-1 1/2)	7320-2 556 (600-2)



VOR/DME OCS 116.0 Chan 107	APP CRS 255°	Rwy Idg 10000 TDZE 6760 Apt Elev 6760
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VOR/DME RWY 27
ROCK SPRINGS-SWEETWATER COUNTY (RKS)

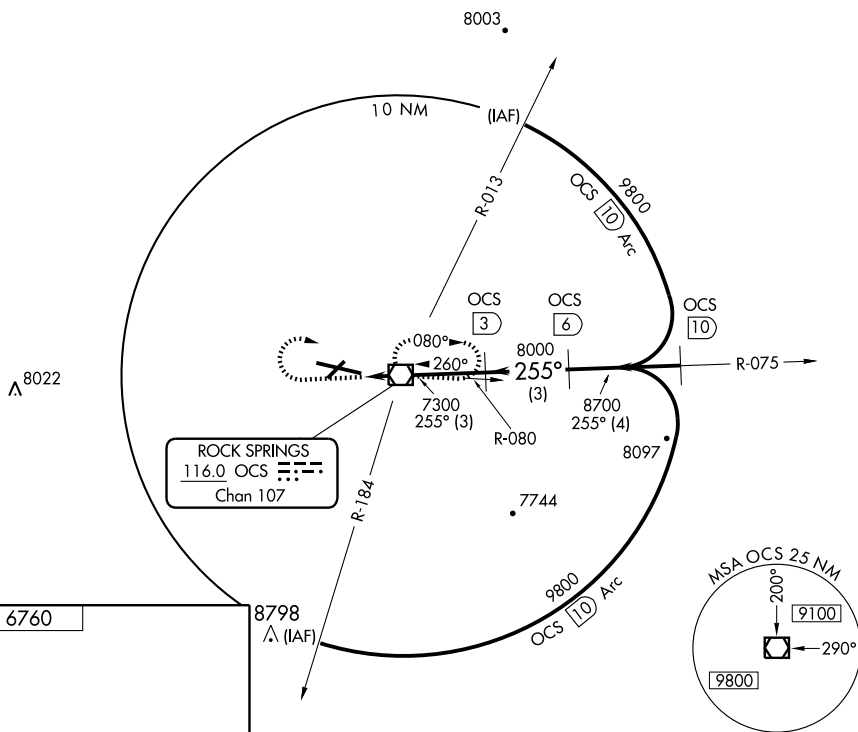
T Inoperative table does not apply to Cat. D.



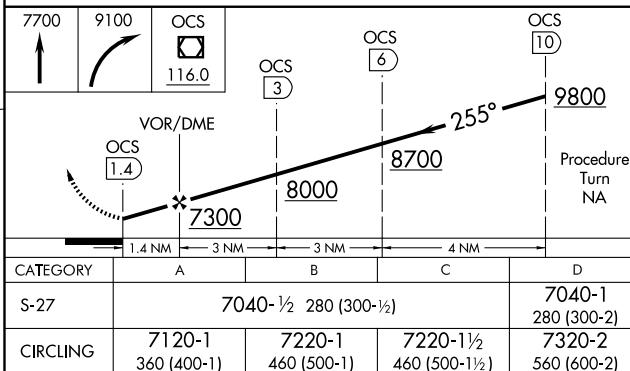
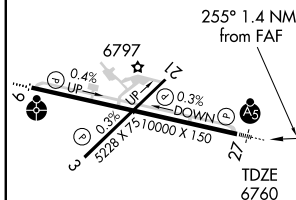
MISSED APPROACH: Climb to 7700, then climbing right turn to 9100 direct OCS VOR/DME and hold.

ASOS
118.375

CASPER RADIO
122.6

UNICOM
122.8 (CTAF) **L**


ELEV 6760

REIL Rwys 3 and 21 **L**MIRL Rwy 3-21 **L**HIRL Rwy 9-27 **L**

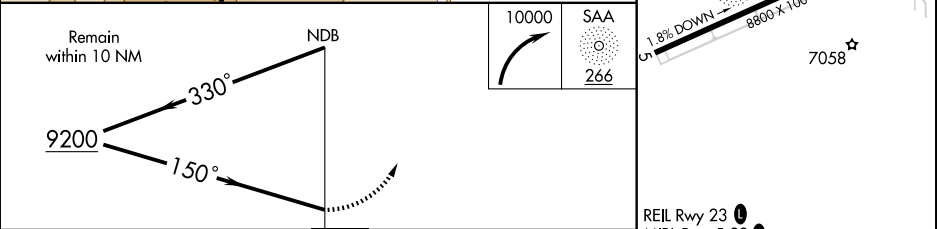
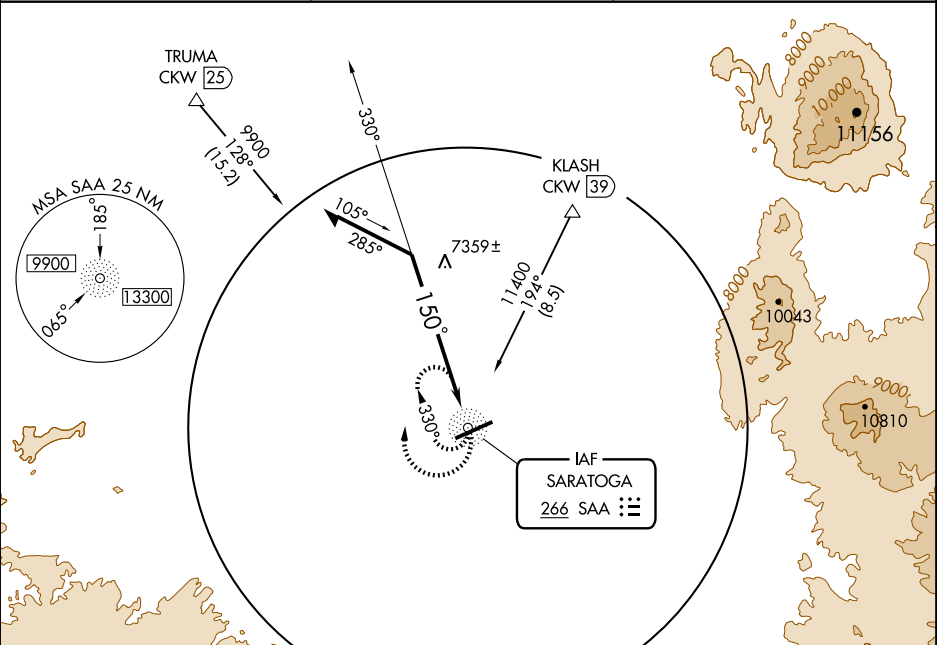
NDB SAA 266	APP CRS 150°	Rwy Idg TDZE Apt Elev N/A N/A 7012
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NDB-A

SARATOGA/ SHIVELY FIELD (SAA)

 NA	If local altimeter setting not received, use Rawlins altimeter setting and increase all MDAs 280 feet.	MISSED APPROACH: Climbing right turn to 10,000 in SAA NDB holding pattern.
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AWOS-3 118.175	DENVER CENTER 132.1 254.35	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D	Knots	60	90	120	150	180
CIRCLING	7720-1¼ 708 (800-1¼)		7720-2 708 (800-2)	7720-2¼ 708 (800-2¼)	Min:Sec					

APP CRS	Rwy Idg	N/A
151°	TDZE	N/A
	Apt Elev	7012

RNAV (GPS)-B

SARATOGA/SHIVELY FIELD (SAA)

T DME/DME RNP -0.3 NA. If local altimeter setting not received, use Rawlins altimeter setting and increase all MDAs 280 feet.

A NA

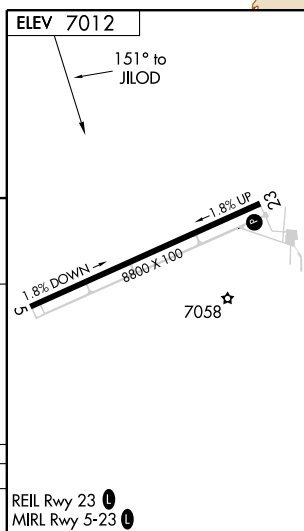
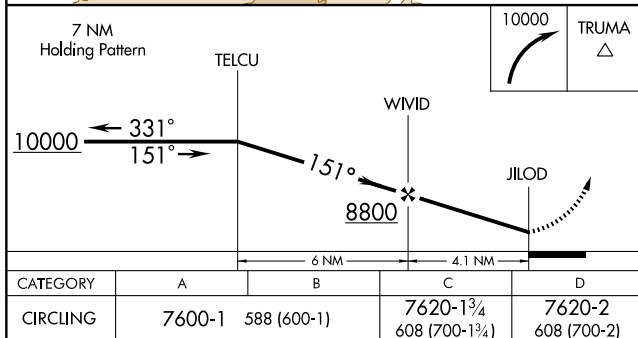
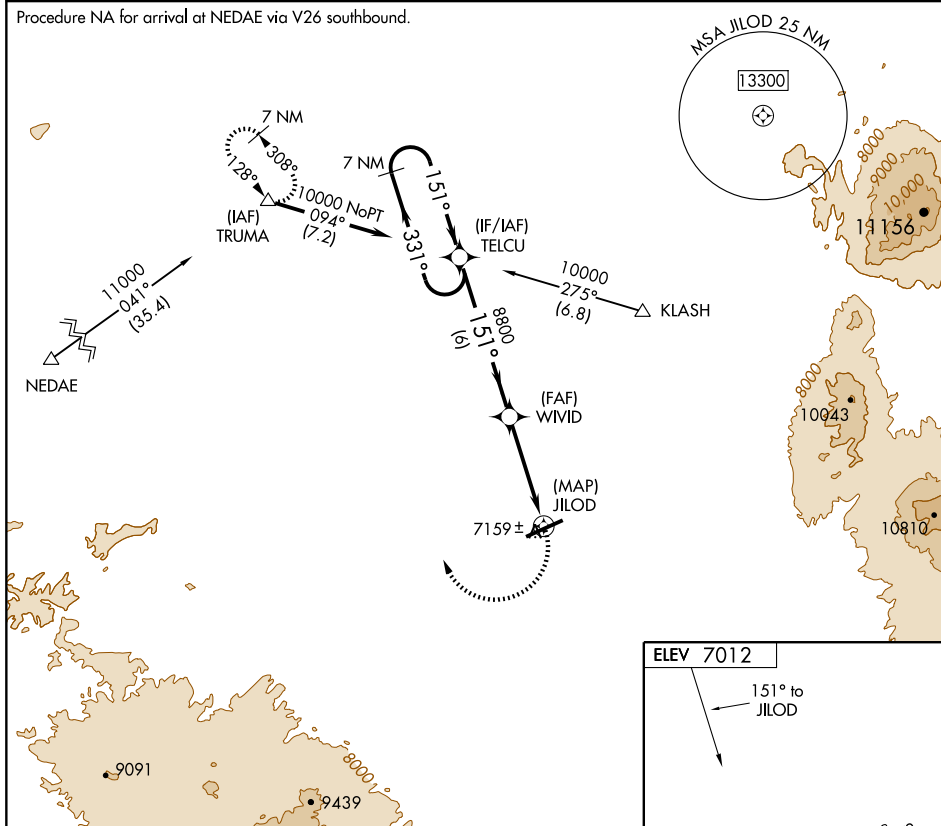
MISSED APPROACH: Climbing right turn to 10,000 direct TRUMA and hold.

AWOS-3
118.175

DENVER CENTER
132.1 254.35

UNICOM
122.8 (CTAF) **L**

Procedure NA for arrival at NEDAE via V26 southbound.



LOC/DME I-SHR 108.7 Chan 24	APP CRS 323°	Rwy Idg TDZE Apt Elev	8300 3985 4021
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ILS or LOC/DME RWY 32

SHERIDAN COUNTY (SHR)

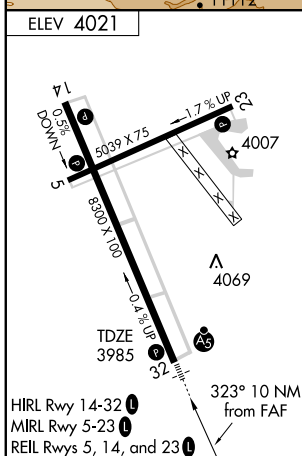
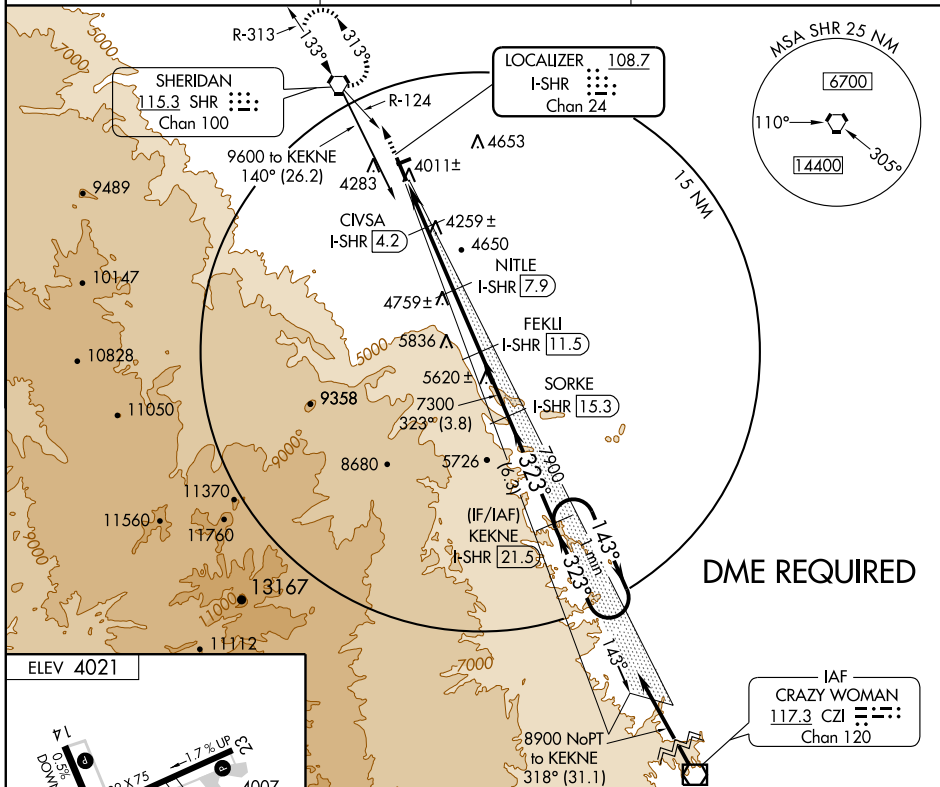
- T** When VGSI inoperative, circling Rwy 5 and 23 NA at night.
A For inoperative MALSR, increase S-LOC 32 Cat D visibility to 1.
If local altimeter setting not received, procedure NA.

MALSr


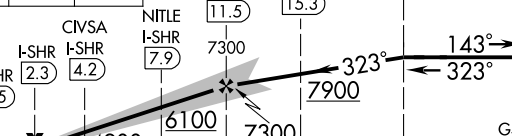


MISSED APPROACH: Climb to 7000 via heading 323° and SHR VORTAC R-124 to SHR VORTAC and hold, continue climb-in-hold to 7000.

ASOS 135.175	SALT LAKE CENTER 127.75 351.9	UNICOM 123.0 (CTAF) ①
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Knots	60	90	120	150	180
Min:Sec					

7000 ↑ 323°		SHR R-124		SHR  115.3		FEKLI I-SHR 11.5		SORKE I-SHR 15.3		KEKNE I-SHR 21.5		One Minute Holding Pattern	
													
CATEGORY		A		B		C		D					
S-ILS 32				4185-½		200 (200-½)							
S-LOC 32				4260-½		275 (300-½)		4260-¾ 275 (300-¾)					
CIRCLING		4580-1 559 (600-1)		4600-1 579 (600-1)		4620-1½ 599 (600-1½)		4740-2¼ 719 (800-2¼)					

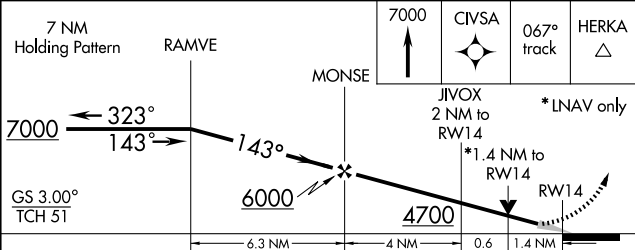
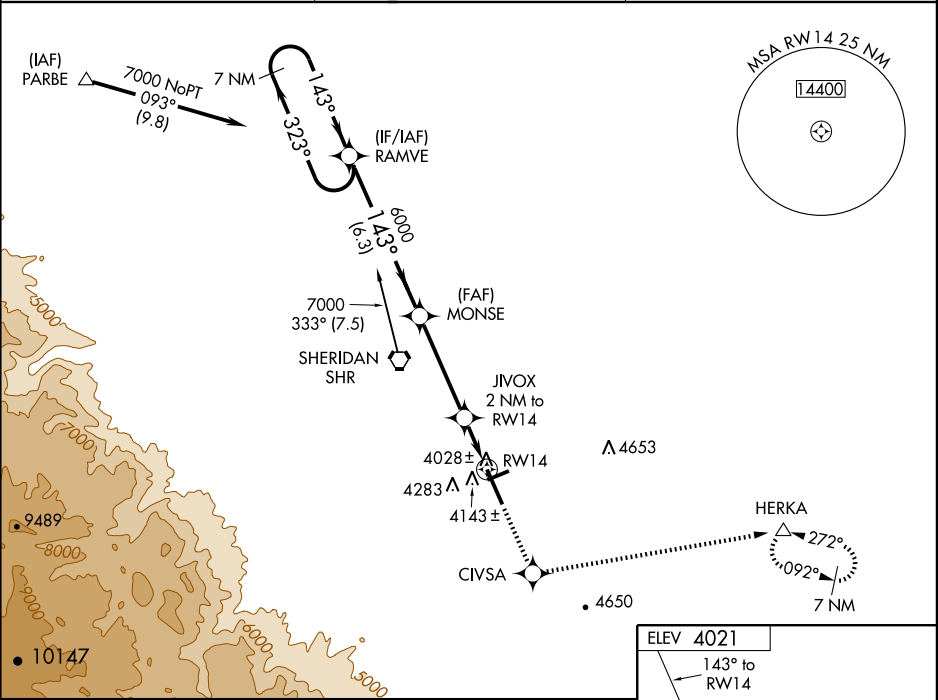
RNAV (GPS) RWY 14
SHERIDAN COUNTY (SHR)

WAAS CH 81899 W14A	APP CRS 143°	Rwy Idg TDZE Apt Elev 8300 4014 4021
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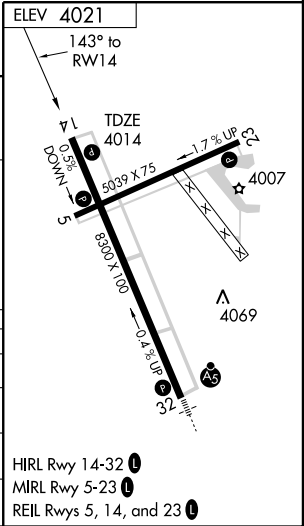
⚠ DME/DME RNP -0.3 NA.
⚠ Baro-VNAV NA below -23°C (-9°F).
When VGSI inoperative, circling Rwy 5 and 23 NA at night.
If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climb to 7000 direct CIVSA
and via 067° track to HERKA and hold, continue
climb-in-hold to 7000.

ASOS 135.175	SALT LAKE CENTER 127.75 351.9	UNICOM 123.0 (CTAF) 0
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CATEGORY	A	B	C	D
LPV DA		4264-3/4	250 (300-3/4)	
RNAV/VNAV DA		4419-1 1/2	405 (400-1 1/2)	
RNAV MDA	4500-1	486 (500-1)	4500-1 1/4 486 (500-1 1/4)	4500-1 1/2 486 (500-1 1/2)
CIRCLING	4580-1 1/2 559 (600-1 1/2)	4600-1 1/2 579 (600-1 1/2)	4620-1 1/2 599 (600-1 1/2)	4740-2 1/4 719 (800-2 1/4)

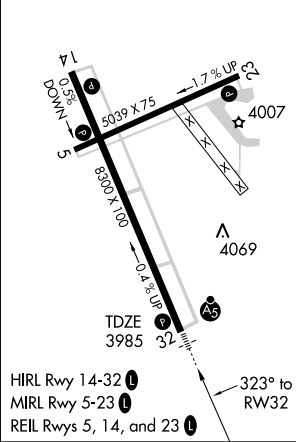
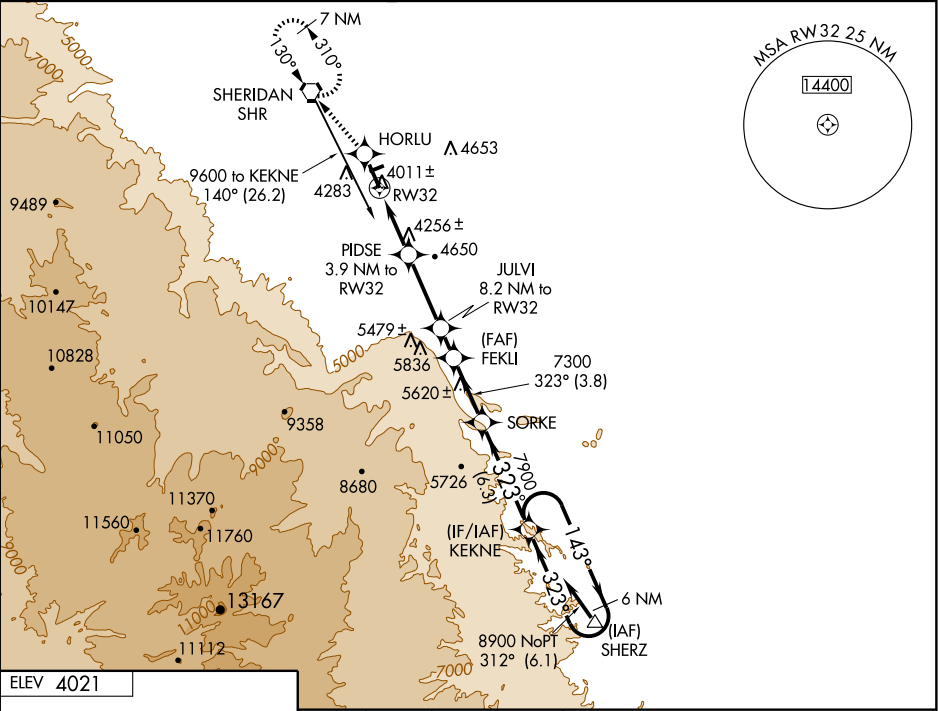


WAAS CH 65699 W32A	APP CRS 323°	Rwy Idg TDZE Apt Elev 8300 3985 4021
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RNAV (GPS) RWY 32
SHERIDAN COUNTY (SHR)

<p>▼ DME/DME RNP- 0.3 NA. Baro-VNAV NA below -23°C (-9°F). ▲ For inoperative MALSR, increase LPV visibility to ¾ all Cats. When VGSI inoperative, circling Rwy 5 and 23 NA at night. If local altimeter setting not received, procedure NA.</p>	<p>MALSR </p>	<p>MISSED APPROACH: Climb to 7000 direct HORLU and via 306° track to SHR VORTAC and hold, continue climb-in-hold to 7000.</p>
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ASOS 135.175	SALT LAKE CENTER 127.75 351.9	UNICOM 123.0 (CTAF)
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7000 ↑	HORLU ✦	306° track	SHR ◡	6 NM Holding Pattern				
*LNAV only						KEKNE		
*1.5 NM to RW32		PIDSE 3.9 NM to RW32	JULVI 8.2 NM to RW32	FEKLI	SORKE	143° 8900		
RW32		5280	6700	7300	323° 7900	←323°	GS 3.00° TCH 59	
1.5	2.4 NM	4.3 NM	1.8 NM	3.8 NM	6.3 NM			
CATEGORY	A		B		C	D		
LPV DA	4235-½				250 (300-½)			
LNAV/ VNAV DA	4426-1				441 (500-1)			
LNAV MDA	4520-½		535 (500-½)		4520-1 535 (500-1)		4520-1¼ 535 (500-1¼)	
CIRCLING	4580-1½ 559 (600-½)		4600-1½ 579 (600-½)		4620-1½ 599 (600-½)		4740-2¼ 719 (800-2¼)	

VORTAC SHR 115.3 Chan 100	APP CRS 128°	Rwy Idg 8300 TDZE 4014 Apt Elev 4021
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VOR RWY 14
SHERIDAN COUNTY (SHR)

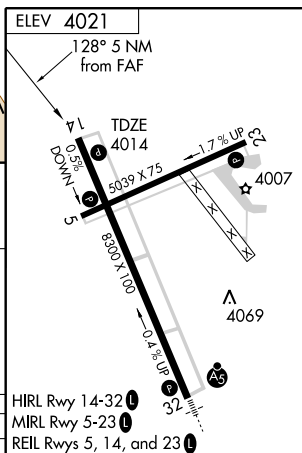
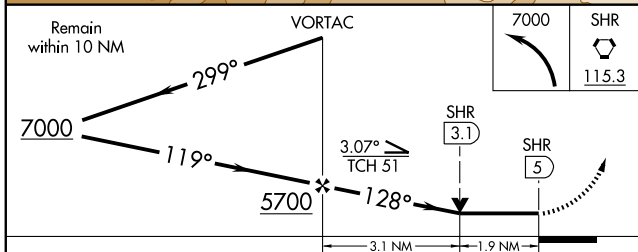
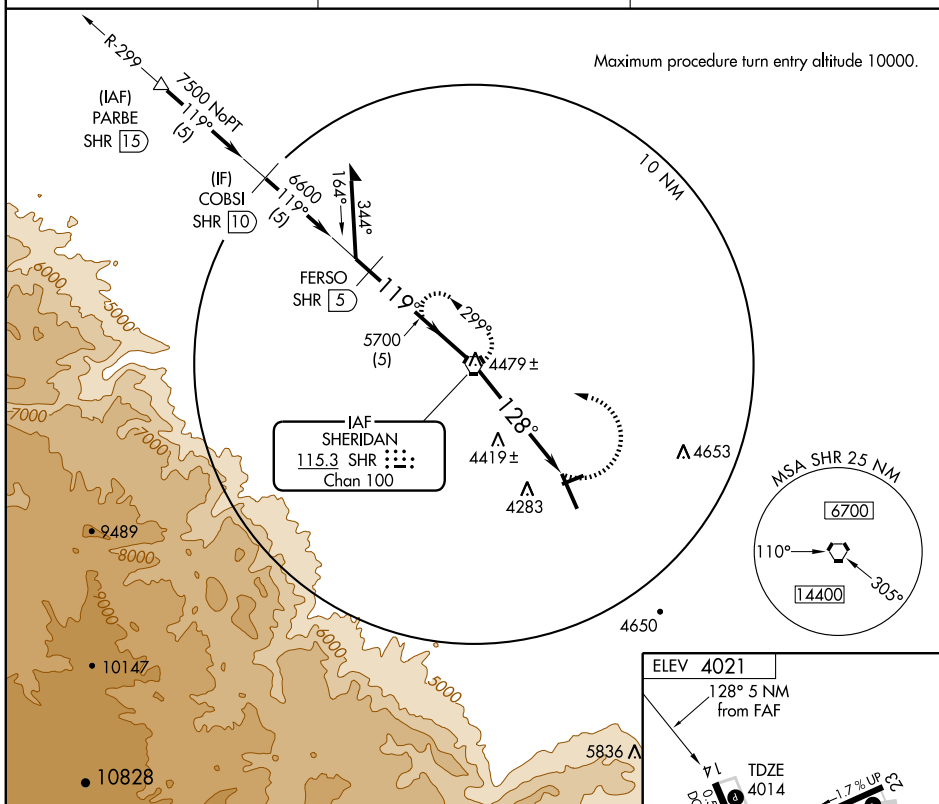
T If local altimeter setting not received, procedure NA.

MISSED APPROACH: Climbing left turn to 7000 direct SHR VORTAC and hold, continue climb-in-hold to 7000.

ASOS
135,175

SALT LAKE CENTER
127.75 351.9

UNICOM
123.0 (CTAF) **L**



CATEGORY	A	B	C	D
S-14	4680-1	666 (700-1)	4680-1 $\frac{3}{4}$ 666 (700-1 $\frac{3}{4}$)	4680-2 666 (700-2)
CIRCLING	4680-1	659 (700-1)	4680-1 $\frac{3}{4}$ 659 (700-1 $\frac{3}{4}$)	4740-2 $\frac{1}{4}$ 719 (800-2 $\frac{1}{4}$)

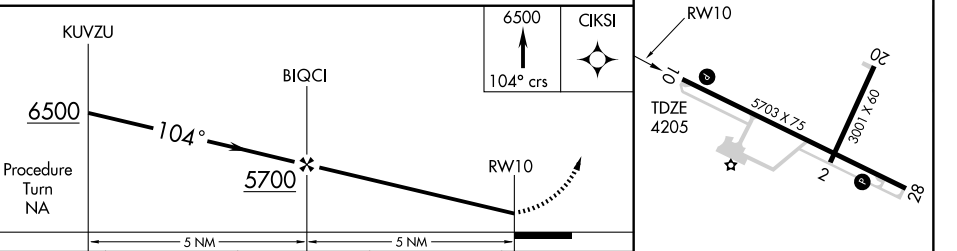
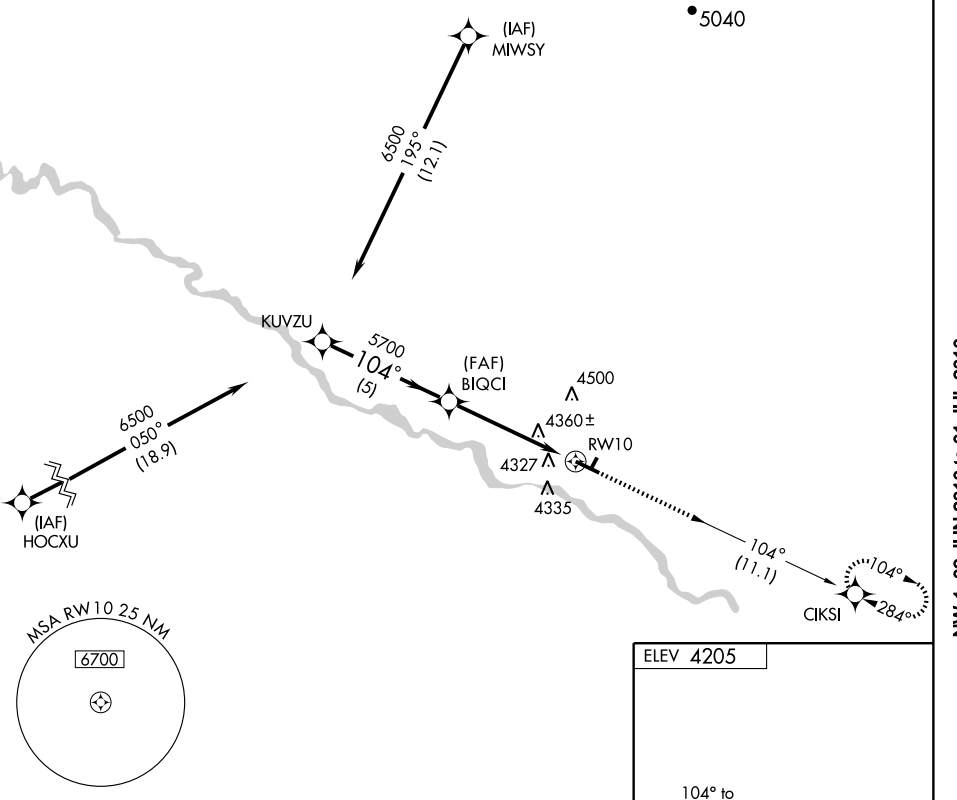
FAF to MAP 5 NM					
Knots	60	90	120	150	180
Min:Sec	5:00	3:20	2:30	2:00	1:40

▼

▲ NA

MISSED APPROACH: Climb to 6500 via 104° course to CIKSI WP and hold.

ASOS 118.375	DENVER CENTER 127.95 338.2	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-10	4660-1	455 (500-1)	4660-1¼ 455 (500-1¼)	4660-1½ 455 (600-1½)
CIRCLING	4680-1	475 (500-1)	4680-1½ 475 (500-1½)	4820-2 615 (700-2)

REIL Rwy 10-28 0

MIRL Rwy 10-28 0

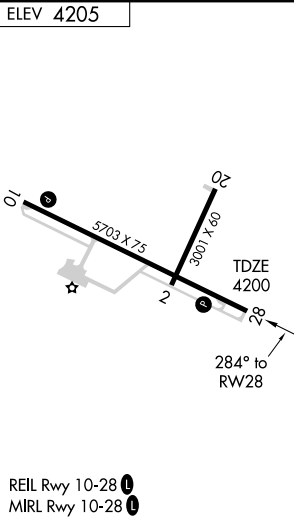
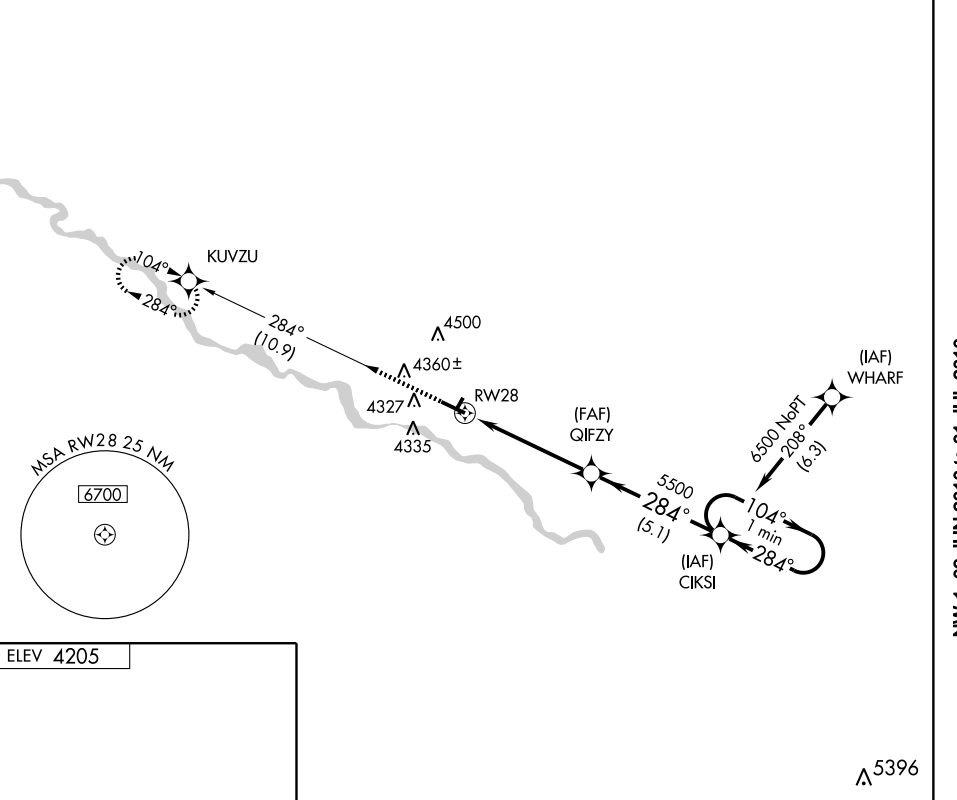
NW-1, 03 JUN 2010 to 01 JUL 2010

▼

▲ NA

MISSED APPROACH: Climb to 6500 via 284° course to KUVZU WP and hold.

ASOS 118.375	DENVER CENTER 127.95 338.2	UNICOM 122.8 (CTAF) 0
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6500
284° crs

KUVZU

QIFZY

CIKSI

One Minute Holding Pattern

104° → 6500
← 284°

5 NM

5.1 NM

CATEGORY	A	B	C	D
S-28	4620-1	420 (500-1)	4620-1¼	420 (500-1¼)
CIRCLING	4680-1	475 (500-1)	4680-1½ 475 (500-1½)	4820-2 615 (700-2)

NW-1. 03 JUN 2010 to 01 JUL 2010

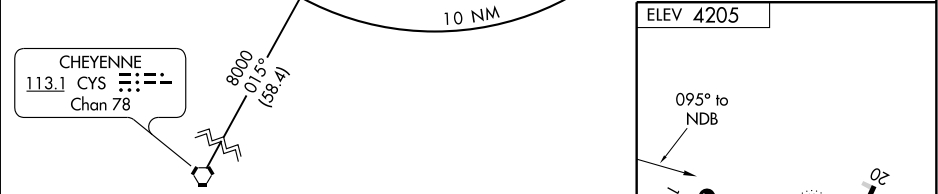
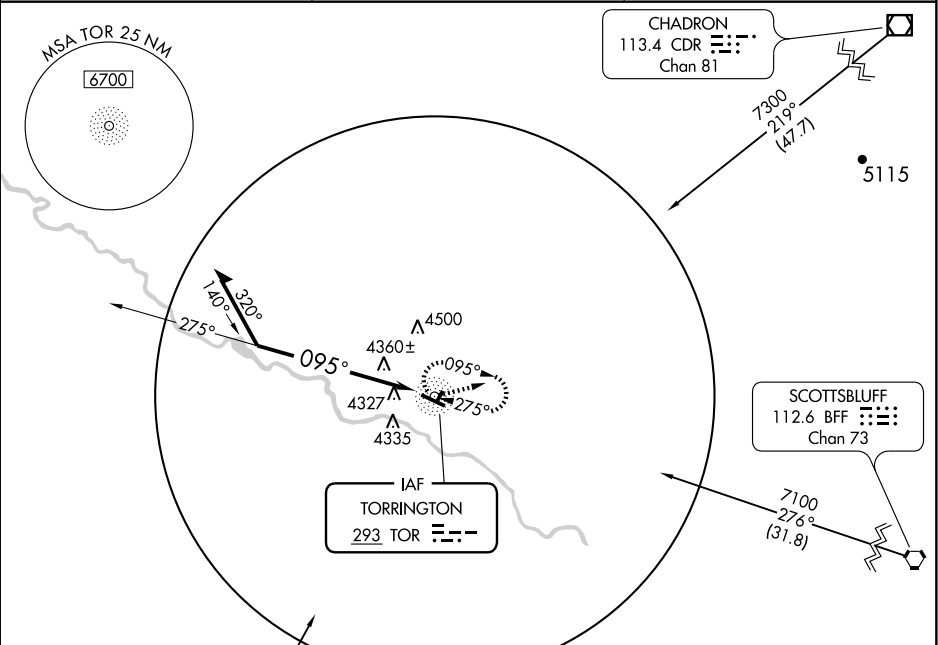
NDB RWY 10
TORRINGTON MUNI (TOR)

NDB TOR	APP CRS	Rwy Idg	5703
293	095°	TDZE	4205
		Apt Elev	4205


NA

MISSED APPROACH: Climb to 6500 in TOR NDB holding pattern.

ASOS 118.375	DENVER CENTER 127.95 338.2	UNICOM 122.8 (CTAF)
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Remain within 10 NM

6300

275°

095°

NDB

6500

TOR

293

CATEGORY	A	B	C	D
S-10	4940-1	735 (800-1)	4940-2 735 (800-2)	4940-2¼ 735 (800-2¼)
CIRCLING	4940-1	735 (800-1)	4940-2 735 (800-2)	4940-2¼ 735 (800-2¼)

REIL Rwy 10-28
MIRL Rwy 10-28

NDB TOR	APP CRS	Rwy Idg	5703
<u>293</u>	<u>295°</u>	TDZE	4200
		Apt Elev	4205

NDB RWY 28

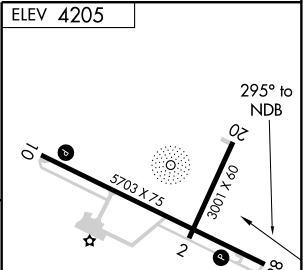
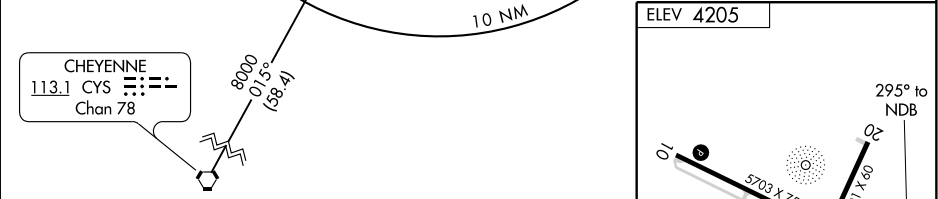
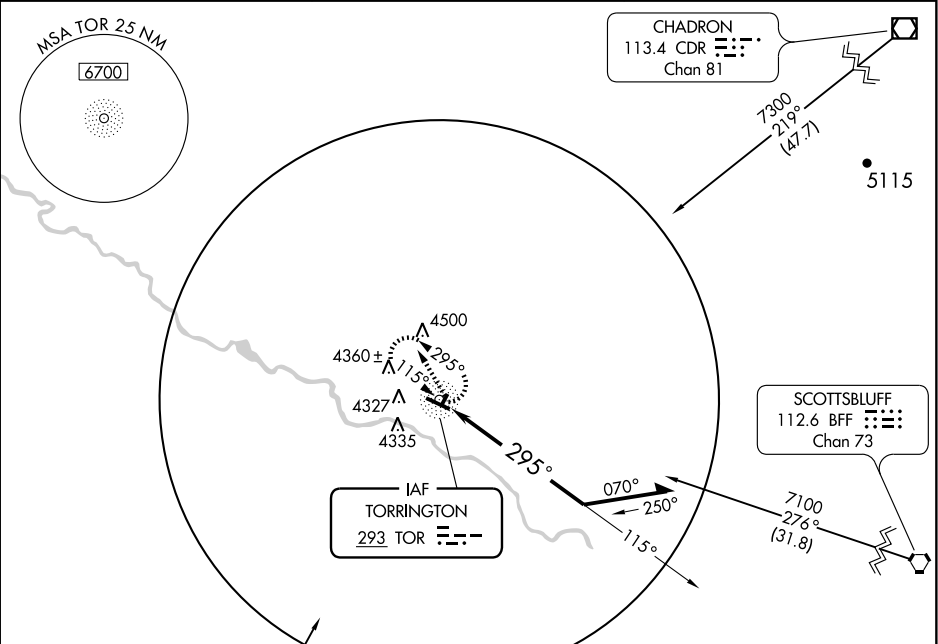
TORRINGTON MUNI (TOR)

▼

▲ NA

MISSED APPROACH: Climb to 6500 in TOR NDB holding pattern.

ASOS 118.375	DENVER CENTER 127.95 338.2	UNICOM 122.8 (CTAF) 0
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CATEGORY	A	B	C	D
S-28	4720-1 520 (600-1)		4720-1½ 520 (600-1½)	4720-1¾ 520 (600-1¾)
CIRCLING	4720-1 515 (600-1)		4720-1½ 515 (600-1½)	4820-2 615 (700-2)

REIL Rwy 10-28 0
MIRL Rwy 10-28 0

APP CRS 260°	Rwy Idg TDZE Apt Elev	N/A N/A 4774
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RNAV (GPS)-A

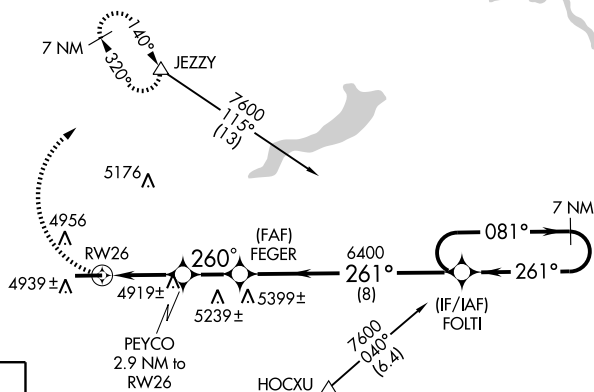
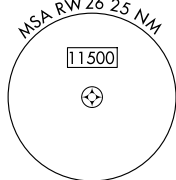
WHEATLAND/ PHIFER AIRFIELD (E.A.N)

▼ DME/DME RNP- 0.3 NA. Visibility reduction by helicopters NA.
▲ NA Use Torrington altimeter setting; when not received, use Western Neb. Rgnl/William B. Heilig Field altimeter setting and increase all MDAs 100 feet and visibility Cats B/C ¼ mile.
 Procedure NA at night.

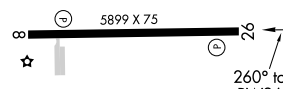
MISSED APPROACH: Climbing right turn to 9000 direct JEZZY and hold, continue climb-in-hold to 9000.

DENVER CENTER
135.6 385.6

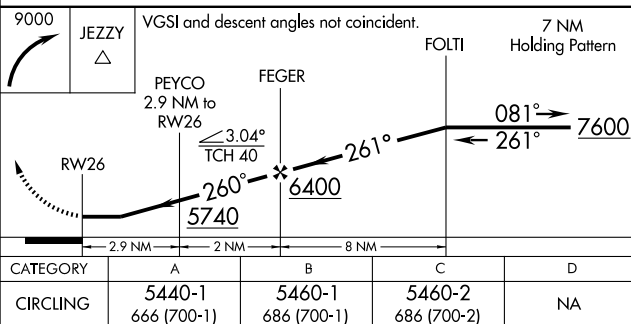
CTAF
122.9



ELEV 4774



▲ 5687



MIRL Rwy 8-26

WORLAND, WYOMING

AL-801 (FAA)

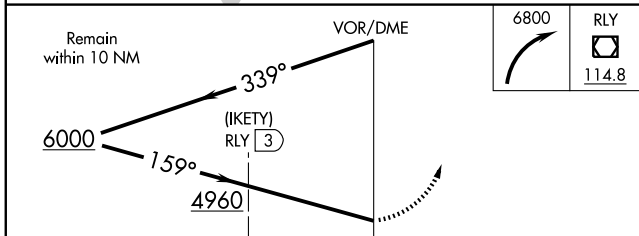
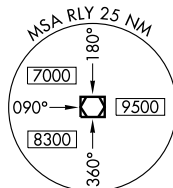
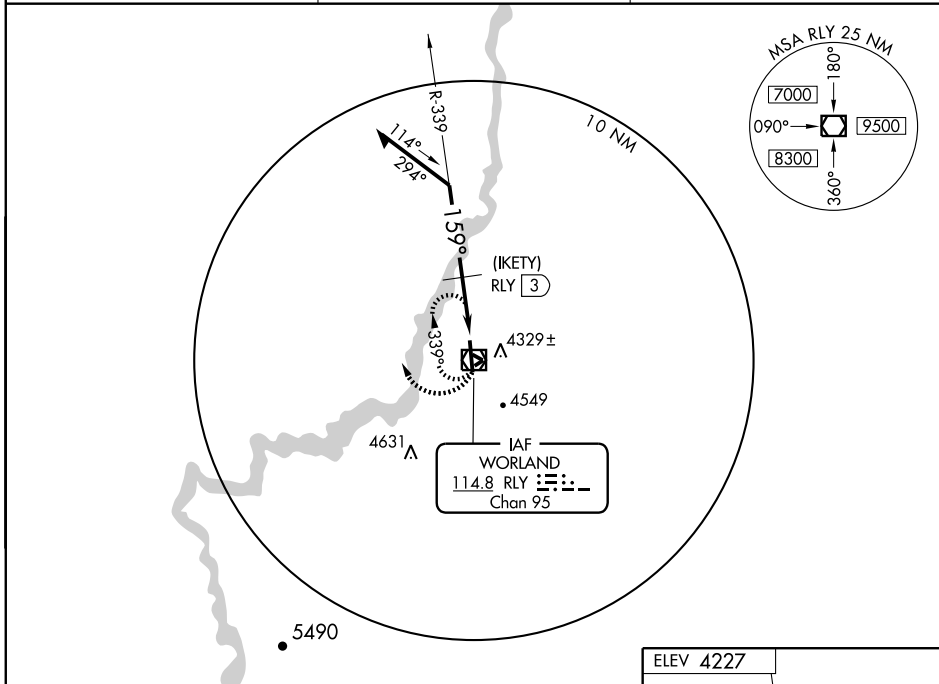
VOR/DME RLY 114.8 Chan 95	APP CRS 159°	Rwy Idg TDZE Apt Elev	7005 4179 4227
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VOR or GPS RWY 16

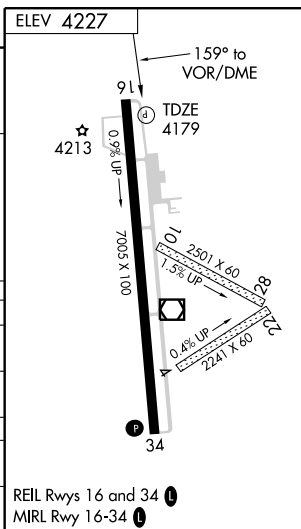
WORLAND MUNI (WRL)

<p>▼ ▲</p>	<p>MISSED APPROACH: Climbing right turn to 6800 in RLY VOR/DME holding pattern.</p>
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<p>ASOS 135.475</p>	<p>SALT LAKE CENTER 133.25 285.6</p>	<p>UNICOM 123.05 (CTAF) 0</p>
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CATEGORY	A	B	C	D
S-16	4960-1 781 (800-1)	4960-1¼ 781 (800-1¼)	4960-2¼ 781 (800-2¼)	4960-2½ 781 (800-2½)
CIRCLING	4960-1 733 (800-1)	4960-1¼ 733 (800-1¼)	4960-2¼ 733 (800-2¼)	4960-2½ 733 (800-2½)
DME MINIMUMS				
S-16	4600-1 421 (400-1)	4600-1¼ 421 (400-1¼)		
CIRCLING	4840-1 613 (700-1)	4900-1 673 (700-1)	4900-2 673 (700-2)	4900-2¼ 673 (700-2¼)



NW-1, 03 JUN 2010 to 01 JUL 2010